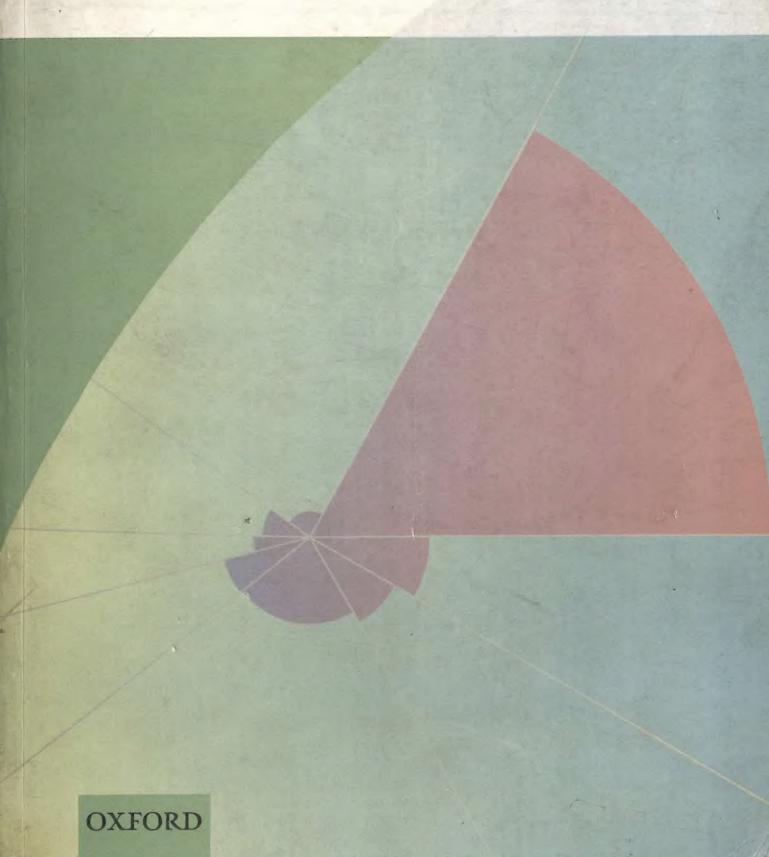
# HUMAN DEVELOPMENT REPORT 1999



Geographic barriers may have fallen for communications, but a new barrier has emerged, an invisible barrier that is like a world wide web, embracing the connected and silently—almost imperceptibly—excluding the rest.

The cover design shows the unevenness of globalization, illustrated by the integration of communications. The Internet is linking people in a new global network, but access is concentrated among people in rich countries. OECD countries, with 19% of the world population, account for 91% of users.

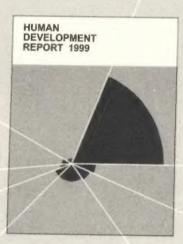
The large outer circle represents world population. The pie slices show the regional shares of world population. The dark wedges at the centre show the global enclave of Internet users.

South Asia

Sub-Saharan Africa

Arab States

Eastern Europe and the CIS

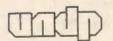


OECD

Latin America and the Caribbean

South-East Asia and the Pacfic





Published for the United Nations Development Programme (UNDP)



OXFORD UNIVERSITY PRESS



YMCA Library Building, Jai Singh Road, New Delhi 110001

Oxford University Press is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide in

Oxford New York
Athens Auckland Bangkok Bogota Buenos Aires Calcutta
Cape Town Chennai Dar es Salaam Delhi Florence Hong Kong Istanbul
Karachi Kuala Lumpur Madrid Melbourne Mexico City Mumbai
Nairobi Paris Sao Paolo Singapore Taipei Tokyo Toronto Warsaw
with associated companies in
Berlin Ibadan

Copyright ©1999 by the United Nations Development Programme 1 UN Plaza, New York, New York, 10017, USA

Published by the Oxford University Press, Inc. 198 Madison Avenue, New York, New York, 10016

Oxford is a registered trademark of Oxford University Press

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission of Oxford University Press.

First Indian printing 1999 by permission of the original publisher 9904

ISBN 0 19 565251 7

For sale in India, Bangladesh, Nepal, Bhutan, Sri Lanka, and Myanmar

Printed at Sahara India Mass Communication, Noida and published by Manzar Khan, Oxford University Press YMCA Library Building, Jai Singh Road, New Delhi 110001 Dedicated to the memory of

Mahbub ul Haq (1934-98)

CREATOR OF THE HUMAN DEVELOPMENT REPORT

# Foreword

This is the first Human Development Report that bears my signature as Administrator. For a new Administrator, the Human Development Report is a crown jewel of UNDP. Its robust editorial independence and its unapologetic scholarship have led its authors to say the unthinkable, and they then have the pleasure of watching conventional opinion catch up. I believe that Mahbub ul Haq, to whom this tenth Report is dedicated, would be proud that the tradition is being so vigorously maintained.

This year's Report comes down clearly in favour of the power of globalization to bring economic and social benefits to societies: the free flow of money and trade is matched by the liberating power of the flow of ideas and information driven by new technologies.

However, as it has so effectively in the past, the Report champions the agenda of the world's weak, those marginalized by globalization, and calls for a much bolder agenda of global and national reforms to achieve globalization with a human face. It cautions that globalization is too important to be left as unmanaged as it is at present, because it has the capacity to do extraordinary harm as well as good. I fully endorse this view.

Let me comment on only two aspects of the Report's wide-ranging recommendations for change in how global society is organized.

First, governance. My own view is that we are seeing the emergence of a new, much less formal structure of global governance, where governments and partners in civil society, the private sector and others are forming functional coalitions across geographic borders and traditional political lines to move public policy in ways that meet the aspirations of a global citizenry. Some issue campaigns have led to shifts in global policy, such as the antilandmine campaign and the

campaign for millennium debt relief. These coalitions use the convening power and the consensus-building, standard-setting and implementing roles of the United Nations, the Bretton Woods institutions and international organizations, but their key strength is that they are bigger than any of us and give new expression to the UN Charter's "We, the peoples." We must not suffocate this new diplomacy with new institutions, but first try to adapt and strengthen those we have—not least by reaching out to these new global coalitions of stakeholders.

Second, markets. In listing the negative impacts of markets on people, it is important not to appear to be rejecting markets as the central organizing principle of global economic life. Markets need institutions and rules—and too frequently in the global setting they are not yet adequately subjected to the control of either. But the unleashing of competition within countries and between countries has ushered in for many an era of prosperity and liberty.

Where I fully agree with the authors is that this empowerment has been uneven—leaving countries, regions, ethnic and religious groups, classes and economic sectors the victims of increased inequality. Sixty countries have been getting steadily poorer since 1980. The losers from globalization are both a huge human and political waste and the source of disappointment and often tragedy for themselves and the families that depend on them. Markets have brought dislocation and heartache as well as remarkable advances. As the authors argue, these failures, unaddressed, will compound and encroach on the security of today's market winners.

Public health problems, immigration and refugees, environmental degradation and broader social and political breakdown are the new security challenges that breed in a context of unattended global inequality. For all our sakes we need to work together to build the frameworks of a new global society and economy that respect differences, protect the weak and regulate the strong. We must do so, however, in ways that are innovative and reflective of the new forces in our societies—and that keep markets free but fair.

Max Mallon Bron

Mark Malloch Brown

The analysis and policy recommendations of the Report do not necessarily reflect the views of the United Nations Development Programme, its Executive Board or its Member States. The Report is the fruit of a collaborative effort by a team of eminent consultants and advisers and the Human Development Report team. Richard Jolly, Special Adviser to the Administrator, together with Sakiko Fukuda-Parr, Director of the Human Development Report Office, led the effort.

## Team for the preparation of Human Development Report 1999

## Principal Coordinator Richard Jolly

### **UNDP** team

Director: Sakiko Fukuda-Parr
Deputy Director: Selim Jahan
Members: Håkan Björkman, Sarah Burd-Sharps,
Haishan Fu, Laura Mourino-Casas, Andreas Pfeil,
Kate Raworth and Pablo Rodas, in collaboration
with Özer Babakol, Marixie Mercado, Irina
Nemirovsky, Guy Ranaivomanana, Nadia Rasheed
and Tamahi Yamauchi

Editor: Bruce Ross-Larson Designer: Gerald Quinn

### Panel of consultants

Adebayo Adedeji, Philip Alston, Galal Amin, Lourdes Arizpe, Isabella Bakker, Yusuf Bangura, David Bigman, Bob Deacon, Meghnad Desai, Nancy Folbre, Stephany Griffith-Jones, Gerry Helleiner, K.S. Jomo, Azizur Rahman Khan, Martin Khor Kok Peng, Jong-Wha Lee, Michael Lipton, Nguyuru Lipumba, Raisul Awal Mahmood, Ranjini Mazumdar, Süle Özler, Theodore Panayotou, Alejandro Ramirez, Mohan Rao, Changyong Rhee, Ewa Ruminska-Zimny, Arjun Sengupta, Victor Tokman, Albert Tuijnman and John Whalley Human development index revision: Sudhir Anand and Amartya Sen

# Acknowledgements

The preparation of the Report would not have been possible without the support and valuable contributions of a large number of individuals and organizations.

Many organizations generously shared their experience, research materials and data: the Food and Agriculture Organization, International Data Corporation, International Fund for Agricultural Development, International Labour Organisation, International Monetary Fund, International Organization for Migration, International Telecommunication Union, Inter-Parliamentary Union, Joint United Nations Programme on HIV/AIDS, Office of the United Nations High Commissioner for Refugees, Organisation for Economic Cooperation and Development, Rural Advancement Foundation International, Stockholm University, United Nations Centre for Social Development and Humanitarian Affairs, United Nations Children's Fund, United Nations Conference on Trade and Development, United Nations Department of Economic and Social Affairs, United Nations Division for the Advancement of Women, United Nations Economic and Social Commission for Asia and the Pacific, United Nations Economic and Social Commission for Western Asia, United Nations Economic Commission for Africa, United Nations Economic Commission for Europe, United Nations Economic Commission for Latin America and the Caribbean, United Nations Educational, Scientific and Cultural Organization, United Nations International Drug Control Pro-United Nations Office gramme, Vienna/Crime Prevention and Criminal Justice Division, United Nations Population Division, United Nations Research Institute for Social Development, United Nations Statistical Division, World Bank, World Health Organization, World Resources Institute and World Times.

The Report benefited greatly from intellectual advice and guidance provided by the external Advisory Panel of eminent experts, which included Lourdes Beneria, Nancy Birdsall, Kwesi Botchwey, Manuel Castells, HaJoon Chang, Robert Douglas, Muni Figueres, Carlos Fortin, Ellen Johnson-Sirleaf, Louka T. Katseli, John Langmore, Nora Lustig, Maureen O'Neil, Yung Chul Park, Juan F. Rada, Gert Rosenthal and Paul Streeten.

The team expresses its special thanks to Gordon Conway and Lincoln Chen of the Rockefeller Foundation for their support for the Bellagio Conference and to those who facilitated and chaired consultations in Geneva, London, Paris, Seoul and Tokyo: Carlos Fortin, Ryokichi Hirono, Jacques Loup and Clare Short. The Report benefited greatly from these and other discussions with Raja Zaharaton Raja Zainal Abdin, Montek Singh Ahluwalia, Sultan Ahmad, Halis Akder, Yilmaz Akyuz, Qazi Shamsul Alam, Azita Amjadi, Aya Aoki, Arjun Appadurai, Lourdes Arizpe, Maria Baquero, Hazel Bennett, Jean-Claude Berthelemy, Yves Berthelot, Ram Binod Bhattari, Yonas Biru, David E. Bloom, Tom Boden, Carlos Hernando Gomez Buendia, Bernadette Burke, Shashua Chen, Kim Woo Choong, S. K. Chu, Patrick Cornu, Elizabeth Crayford, Jacqueline Damon, Liang Dan, Isabelle Decarroux, V. V. Desai, John Dixon, Le Dang Doah, Susan Douglas, Jean-Christophe Dumont, Heba El-Laithy, Doris Ma Fat, Julio Frenk, Susan Gearhart, Dorota Gierycz, Thomas Gladwin, Erlinda Go, Greta Greathouse, Joseph Grinblat, Odd Gulbrandsen, the late Mahbub ul Haq, Hazel Henderson, Ricardo Henriques, Mark Hereward,

Evelyne Herfkens, Barry Herman, Alan Heston, Kenneth Hill, Karl Hoghesand, Michael Hopkins, Shinsuke Horiuchi, Bela Hovy, Morimitsu Inaba, Hilde Frafjord Johnson, Gareth Jones, Bela Kadar, Kazuko Kano, Devash Kapur, Mats Karlsson, Robert King, Jon Lickerman, Patrick Low, Nyein-Nyein Lwin, Robert Lynn, Christian Morrisson, Srdan Mrkic, Scott Murray, Daw Yi Yi Myint, Takeshi Nakano, Geraldo Nascimiento, Peter Newell, David Nitkin, Farhad Noorbakhsh, Michimasa Numata, Naoki Ono, Elsie Onubogu, Saeed Ordoubadi, Manuel Otero, G. L. Peiris, Bernard Perrollaz, Antonella Picchio, Christine Pintat, Jason Potts, Thomson Prentice, Will Prince, Madanmohan Rao, Martin Ravallion, Wolfgang Rhomberg, E. Riordan, Jerzey Rozanski, Jagdish Saighal, Orlando Sakay, Claude Sauvageot, Karl Sauvant, Enid Schoettle, Simon Scott, John Sewell, Ali Mojtahed Shabestari, Donald Shih, A. K. Shivakumar, S. Simeant, Ajit Singh, Timothy Smeeding, Babar Sobhan, Budhy T. Socdijoko, Shiv Someshwar, Frances Stewart, Namgoong Suk, Robert Summers, Eric Swanson, Françoise Tandart, Simon Tay, Shigeki Tejima, Raj Thamotheram, Harald Trabold Nubler, Lourdes Urdaneta-Ferran, Mark Uzan, Joann Vanek, Maria Vaquero, Michael Ward, Tessa Wardlow, Robin White, Saskia E. Wieringa, Erna Witoelar, Jinishiro Yanabuta, Long Yongtu, Tsuneaki Yoshida, Akiko Yuge, Anne Zammitt, Frederique Zegel and He Zengke.

Colleagues in UNDP provided extremely useful comments, suggestions and inputs during the drafting of the Report. In particular, the authors would like to express their gratitude to Thelma Awori, Nilufer Cagatay, Georges Chapelier, Shabbir Cheema, Djibril Diallo, Abdoulaye Mar Dieye, Moez Doraid, Hans d'Orville, Ligia Elizondo, Fawaz Fokeladeh, Anne Forrester, Ariel Français, Enrique Ganuza, Isabelle Grunberg-Filatov, Michael Heyn, Noeleen Heyzer, Nay Htun, Henry Jackelen, Mbaya Kankwenda, Inge Kaul, Anton Kruiderink, Kerstin Leitner, Thierry Lemaresquier, Khalid Malik, Andrei Marcu, Elena Martinez. Brenda McSweeney, Saraswathi Menon, Luong Nguyen, Omar Noman, John Ohiorhenuan, Minh Pham, Ravi Rajan, Jordan Ryan, Nessim Shallon, Sarah L.

Timpson, Antonio Vigilante, Mourad Wahba, Eimi Watanabe, Phillips Young, Raul Zambrano and Fernando Zumbado.

A number of offices in UNDP and national human development report teams provided support and information. They include many UNDP country offices, including special contributions from UNDP Indonesia and Malaysia, UNDP's Regional Bureaux and the Bureau for Development Policy. The United Nations Office for Project Services provided the team with critical administrative support. Particular thanks go to Martha Barrientos, Maria Hemsy, Oscar Hernandez, Liliana Izquierdo, Serene Ong and Ingolf Schuetz-Mueller.

The Report also benefited from the dedicated work of interns. Thanks are due to Myriam Benlamlih, Fe Conway, Michael E. Davidian, Petter Meirik, Joachim Reiter, Jessica Rothenberg-Aalami, Kerstin Schuetz-Mueller, Sahba Sobhani and Hye Yoen Kim.

Secretarial and administrative support for the Report's preparation were provided by Luz Asuncion, Sonia Barolette, Oscar Bernal, Renuka Corea-Lloyd, Rekha Kalekar, Chato Ledonio-O'Buckley and Marjorie Victor. And as in previous years, the Report benefited from the editing and pre-press production of Communications Development Incorporated's Bruce Ross-Larson, Garrett Cruce, Terrence Fischer, Wendy Guyette, Paul Holtz, Damon Iacovelli, Megan Klose, Daphne Levitas, Terra Lynch, Donna McGreevy, Laurel Morais, Alison Smith and Alison Strong.

The team expresses sincere appreciation to the Administrator's peer reviewers, Kwesi Botchwey and Diane Elson.

The authors are deeply indebted to the late Mahbub ul Haq, the originator of the *Human Development Reports*. His vision and commitment will continue to inspire the Reports.

The authors are especially grateful to James Gustave Speth, who, as UNDP Administrator, guided and inspired the preparation of *Human Development Reports* 1994, 1995, 1996, 1997, 1998 and 1999. His strong intellectual leadership and unqualified commitment to this series made these publications possible.

Thankful for all the support that they have received, the authors assume full responsibility for the opinions expressed in the Report.

# Contents

OVERVIEW Globalization with a human face 1 TEN YEARS OF HUMAN DEVELOPMENT 15		
CHAPTER TWO  New technologies and the global race for knowledge 57  The race for knowledge 57  The new technologies—drivers of globalization 57  Access to the network society—who is in the loop and on the map? 61  The new rules of globalization—shaping the path of technology 66  Impacts on people 68  The need to reshape technology's path 72		
CHAPTER THREE  The invisible heart—care and the global economy 77  Human development, capabilities and care 77  Care—or "tender loving care" 78  Globalization and care 79  Care and market rewards 80  Redistributing the costs and responsibilities of care—to family, state and corporation 80  The challenge of care in the global economy 81		
CHAPTER FOUR  National responses to make globalization work for human development  Capturing global opportunities 84  Protecting people against vulnerabilities 90  Overcoming the resource squeeze 92		

Get	nerating pro-poor growth—reducing inequalities			
	enhancing human capabilities 94			
Cre	ating effective alliances of national actors 95			
For	mulating strategies for emerging new issues in the global system 96			
	APTER FIVE			
	eventing global governance—for humanity and equity 97			
	ing human concerns and rights at the centre of global governance 98			
	ecting human security in economic crisis 101			
	acing other causes of human insecurity 103			
	Narrowing global gaps 104			
	ific actions to strengthen the bargaining position			
	oor countries in global governance 108			
-	now to build the global architecture required for the 21st century 110			
	nese actions begin with people 114			
Refe	rences 115			
SPE	CIAL CONTRIBUTIONS			
Ten y	years of human development Paul Streeten 16			
Asses	ssing human development Amartya Sen 23			
Partr	nership with the United Nations Ted Turner 100			
BOX	TES			
1.1	Globalization—what's really new? 30			
1.1	Shrinking time, shrinking space, disappearing borders—but for whom?			
1.3	The concept of human security 36			
1.4	Merry Christmas—and have a Happy New Year elsewhere 37			
1.5	The collapse of the East Asian financial markets—			
2.1/	economies recovering, but human recovery will take longer 40			
1.6	Buildup and reversal of short-term capital flows—lessons of East Asia 41			
1.7	Why crime syndicates like globalization 43			
2.1	What is the Internet? 58			
2.2	HealthNet for better patient care 59			
2.3	Defending Gorbachev, defeating the Multilateral Agreement			
	on Investment—how the Internet made a difference 60			
2.4	Trading places—the rise of data processing 61			
2.5	Innovating with the Internet 64			
2.6	Preparing for the information age—set the wheels in motion 66			
2.7	What is TRIPS? 67			
2.8	Ethics and technology—a luxury concern? 72			
2.9	Questioning the ownership of knowledge 73			
2.10	Rerouting the genetic revolution—the CGIAR proposal 74			
3.1	If we are going to compete, let it be in a game of our choosing 78			
3.2	Globalization leads to the feminization of labour—but the outcome is mixed 80			
3.3	More paid work doesn't reduce unpaid work 81			

	3.4	Support for men's child-care responsibilities in Western Europe 82	
	4.1	More trade, more capital, more human deprivation—Russia 85	
	4.2	Opening the Polish economy with institutional reforms 86	
	4.3	Liberalizing foreign investment in India 87	
	4.4	Foreign direct investment for human development in Malaysia 88	
	4.5	Incentives to multinationals—and nationals—in Mauritius 88	
	4.6	Short-term capital controls in Chile 89	
	4.7	Revealing the human trafficking in Eastern Europe and the CIS 89	
	4.8	Social protection for Tunisia's poor 90	
	4.9	Ireland's social partnership agreements 91	
	4.10	Upgrading skills and achieving worker flexibility in Sweden 91	
	4.11	Responses to the eroding welfare state 93	
	4.12	NGOs as a powerhouse in national alliances 96	
	4.13	Meeting the challenges of globalization—Fundación Chile 96	
	4.14	Using national human development reports to outline impacts and priorities 96	
	5.1	Keynes's vision for global governance 98	
	5.2	The successes and failures of global governance since 1945 99	
	5.3	Social auditing of multinational corporations 101	
	5.4	Globalization without Poverty—a European initiative 101	
	5.5	Global crime—the international response 104	
	5.6	Renegotiating Lomé—one size doesn't fit all 105	
	5.7	Developing countries and trade—active participation in the millennium round 106	
	5.8	Debt—a need for accelerated action 107	
	5.9	NGOs and global advocacy 110	
	5.10	Global public goods—the missing element 111	
ANNEX TABLES			
		Trade flows 45	
	A1.2	Resource flows 49	
	A1.3		
	MI.)	Information nows 77	
	BOX	TABLES	
	1.1	Declining cost of transport and communications 30	
	3.3	Time spent in paid and unpaid work in Bangladesh, 1995 81	
	TABI	LES	
	1.1	Top corporations had sales totalling more than the GDP	
		of many countries in 1997 32	
	1.2	Unemployment rate in selected OECD countries 32	
	1.3	The Asian crisis hurts distant economies and people 42	
	2.1	Who has real access to intellectual property claims? 71	
	4.1	Trade, economic growth and human development—no automatic link 85	
	4.2	Foreign direct investment, economic growth	
		and human development—no automatic link 87	

4.3	Adjustment and greater income inequality, 1987-88 to 1993-95 92
4.4	Major and minor collectors of trade taxes, 1990-96 92
4.5	Social welfare systems and income inequality, 1998 94
5.1	Eight heavily indebted poor countries, 1995 108
5.2	External debt of the 41 heavily indebted poor countries, 1992-96 108
5.3	Who gets aid? 108
5.4	Global institutions and their membership 109
FIGU	URES
	Stark disparities between rich and poor in global opportunities 2
1.1	Global integration has progressed rapidly but unevenly
	with wide disparity between countries 26
1.2	International telephone calls 28
1.3	Less than a third of television programming in Latin America originates in the region 34
1.4	Domestic film industries struggle to hold market share 34
1.5	Uneven ratification of human rights conventions 35
1.6	Inequality has worsened both globally and within countries 38
1.7	Portfolio flows have brought severe volatility to many markets 41
1.8	Provisioning for human development 44
2.1	How long before new technologies gain widespread acceptance? 58
2.2	Software exports from India 61
2.3	Teledensity 62
2.4	Internet users—a global enclave 63
2.5	Worldwide mergers and acquisitions 67
2.6	The race for patents 68
2.7	Drug prices and patent costs 69
3.1	Four sources of caring labour 79
4.1	Differences in human development—Botswana and Mali, mid-1980s 85
4.2	Reduced revenue generation—loss of fiscal strength 93
4.3	Growth—pro-poor or pro-rich? 94
4.4	Subsidies to the poor or the rich? 95
HUM	AN DEVELOPMENT INDICATORS
What	do the human development indices reveal? 127
Monit	oring human development: enlarging people's choices
1	Human development index 134
2	Gender-related development index 138
3	Gender empowerment measure 142
4	Human poverty in developing countries 146
5	Human poverty in industrialized countries, Eastern Europe and the CIS 149
6	Trends in human development and per capita income 151
7	Trends in human development and economic growth 155

Index to indicators

261

AIDS Acquired immunodeficiency syndrome

CGIAR Consultative Group on International Agricultural Research

CIS Commonwealth of Independent States

ECOSOC Economic and Social Council (of the United Nations)

EU European Union

FDI Foreign direct investment

GATT General Agreement on Tariffs and Trade
GDI Gender-related development index

GDP Gross domestic product

GEM Gender empowerment measure

GNP Gross national product

HIPCs Heavily indebted poor countries
HDI Human development index
HIV Human immunodeficiency virus

HPI Human poverty index

IMF International Monetary Fund NGO Non-governmental organization ODA Official development assistance

OECD Organisation for Economic Co-operation and Development

PPP Purchasing power parity

TRIPS Trade-Related Aspects of Intellectual Property Rights
UNCTAD United Nations Conference on Trade and Development

UNDP United Nations Development Programme

UNESCO United Nations Educational, Scientific and Cultural Organization

UNICEF United Nations Children's Fund
WHO World Health Organization
WTO World Trade Organization



# Globalization with a human face

"The real wealth of a nation is its people. And the purpose of development is to create an enabling environment for people to enjoy long, healthy and creative lives. This simple but powerful truth is too often forgotten in the pursuit of material and financial wealth." Those are the opening lines of the first Human Development Report, published in 1990. This tenth Human Development Report—like the first and all the others—is about people. It is about the growing interdependence of people in today's globalizing world.

Globalization is not new, but the present era has distinctive features. Shrinking space, shrinking time and disappearing borders are linking people's lives more deeply, more intensely, more immediately than ever before.

More than \$1.5 trillion is now exchanged in the world's currency markets each day, and nearly a fifth of the goods and services produced each year are traded. But globalization is more than the flow of money and commodities—it is the growing interdependence of the world's people. And globalization is a process integrating not just the economy but culture, technology and governance. People everywhere are becoming connected-affected by events in far corners of the world. The collapse of the Thai baht not only threw millions into unemployment in South-East Asia-the ensuing decline in global demand meant slowdowns in social investment in Latin America and a sudden rise in the cost of imported medicines in Africa.

Globalization is not new. Recall the early sixteenth century and the late nineteenth. But this era is different:

- New markets—foreign exchange and capital markets linked globally, operating 24 hours a day, with dealings at a distance in real time.
- New tools—Internet links, cellular phones, media networks.
- New actors—the World Trade Organization (WTO) with authority over national governments, the multinational corporations with more economic power than many states, the global networks of non-governmental organizations (NGOs) and other groups that transcend national boundaries.
- New rules—multilateral agreements on trade, services and intellectual property, backed by strong enforcement mechanisms and more binding for national governments, reducing the scope for national policy.

Globalization offers great opportunities for human advance—but only with stronger governance.

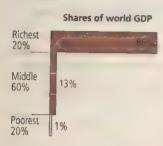
This era of globalization is opening many opportunities for millions of people around the world. Increased trade, new technologies, foreign investments, expanding media and Internet connections are fuelling economic growth and human advance. All this offers enormous potential to eradicate poverty in the 21st century—to continue the unprecedented progress in the 20th century. We have more wealth and technology—and more commitment to a global community—than ever before.

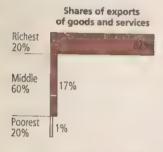
Global markets, global technology, global ideas and global solidarity can enrich the lives of people everywhere, greatly expanding their choices. The growing interdependence of people's lives calls for shared values and a shared commitment to the human development of all people.

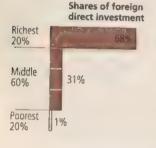
People everywhere are becoming connected affected by events in far corners of the world

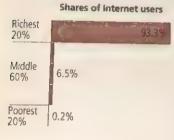
OVERVIEW

Stark disparities between rich and poor in global opportunity 1997 shares









Source: Human Development Report Office.

The post-cold war world of the 1990s has sped progress in defining such values—in adopting human rights and in setting development goals in the United Nations conferences on environment, population, social development, women and human settlements.

But today's globalization is being driven by market expansion—opening national borders to trade, capital, information—outpacing governance of these markets and their repercussions for people. More progress has been made in norms, standards, policies and institutions for open global markets than for people and their rights. And a new commitment is needed to the ethics of universalism set out in the Universal Declaration of Human Rights.

Competitive markets may be the best guarantee of efficiency, but not necessarily of equity. Liberalization and privatization can be a step to competitive markets—but not a guarantee of them. And markets are neither the first nor the last word in human development. Many activities and goods that are critical to human development are provided outside the market—but these are being squeezed by the pressures of global competition. There is a fiscal squeeze on public goods, a time squeeze on care activities and an incentive squeeze on the environment.

When the market goes too far in dominating social and political outcomes, the opportunities and rewards of globalization spread unequally and inequitably—concentrating power and wealth in a select group of people, nations and corporations, marginalizing the others. When the market gets out of hand, the instabilities show up in boom and bust economies, as in the financial crisis in East Asia and its worldwide repercussions, cutting global output by an estimated \$2 trillion in 1998–2000. When the profit motives of market players get out of hand, they challenge people's ethics—and sacrifice respect for justice and human rights.

The challenge of globalization in the new century is not to stop the expansion of global markets. The challenge is to find the rules and institutions for stronger governance—local, national, regional and global—to preserve the advantages of global markets and competition, but also to provide enough space for human, community and environmental resources to ensure that globalization works

for people—not just for profits. Globalization with:

- Ethics—less violation of human rights, not more.
- Equity—less disparity within and between nations, not more.
- *Inclusion*—less marginalization of people and countries, not more.
- Human security—less instability of societies and less vulnerability of people, not more.
- Sustainability—less environmental destruction, not more.
- Development—less poverty and deprivation, not more.

## The opportunities and benefits of globalization need to be shared much more widely.

Since the 1980s many countries have seized the opportunities of economic and technological globalization. Beyond the industrial countries, the newly industrializing East Asian tigers are joined by Chile, the Dominican Republic, India, Mauritius, Poland, Turkey and many others linking into global markets, attracting foreign investment and taking advantage of technological advance. Their export growth has averaged more than 5% a year, diversifying into manufactures.

At the other extreme are the many countries benefiting little from expanding markets and advancing technology—Madagascar, Niger, the Russian Federation, Tajikistan and Venezuela among them.

These countries are becoming even more marginal—ironic, since many of them are highly "integrated", with exports nearly 30% of GDP for Sub-Saharan Africa and only 19% for the OECD. But these countries hang on the vagaries of global markets, with the prices of primary commodities having fallen to their lowest in a century and a half. They have shown little growth in exports and attracted virtually no foreign investment. In sum, today, global opportunities are unevenly distributed—between countries and people (see figure).

If global opportunities are not shared better, the failed growth of the last decades will continue. More than 80 countries still have per capita incomes lower than they were a decade or more ago. While 40 countries have sustained

average per capita income growth of more than 3% a year since 1990, 55 countries, mostly in Sub-Saharan Africa and Eastern Europe and the Commonwealth of Independent States (CIS), have had declining per capita incomes.

Many people are also missing out on employment opportunities. The global labour market is increasingly integrated for the highly skilled—corporate executives, scientists, entertainers and the many others who form the global professional elite—with high mobility and wages. But the market for unskilled labour is highly restricted by national barriers.

Inequality has been rising in many countries since the early 1980s. In China disparities are widening between the export-oriented regions of the coast and the interior: the human poverty index is just under 20% in coastal provinces, but more than 50% in inland Guizhou. The countries of Eastern Europe and the CIS have registered some of the largest increases ever in the Gini coefficient, a measure of income inequality. OECD countries also registered big increases in inequality after the 1980s—especially Sweden, the United Kingdom and the United States.

Inequality between countries has also increased. The income gap between the fifth of the world's people living in the richest countries and the fifth in the poorest was 74 to 1 in 1997, up from 60 to 1 in 1990 and 30 to 1 in 1960. In the nineteenth century, too, inequality grew rapidly during the last three decades, in an era of rapid global integration: the income gap between the top and bottom countries increased from 3 to 1 in 1820 to 7 to 1 in 1870 and 11 to 1 in 1913.

By the late 1990s the fifth of the world's people living in the highest-income countries had:

- 86% of world GDP—the bottom fifth just
- 82% of world export markets—the bottom fifth just 1%.
- 68% of foreign direct investment—the bottom fifth just 1%.
- 74% of world telephone lines, today's basic means of communication—the bottom fifth just 1.5%.

Some have predicted convergence. Yet the past decade has shown increasing concentration of income, resources and wealth among people, corporations and countries:

- OECD countries, with 19% of the global population, have 71% of global trade in goods and services, 58% of foreign direct investment and 91% of all Internet users.
- The world's 200 richest people more than doubled their net worth in the four years to 1998, to more than \$1 trillion. The assets of the top three billionaires are more than the combined GNP of all least developed countries and their 600 million people.
- The recent wave of mergers and acquisitions is concentrating industrial power in megacorporations—at the risk of eroding competition. By 1998 the top 10 companies in pesticides controlled 85% of a \$31 billion global market—and the top 10 in telecommunications, 86% of a \$262 billion market.
- In 1993 just 10 countries accounted for 84% of global research and development expenditures and controlled 95% of the US patents of the past two decades. Moreover, more than 80% of patents granted in developing countries belong to residents of industrial countries.

All these trends are not the inevitable consequences of global economic integration—but they have run ahead of global governance to share the benefits.

# Globalization is creating new threats to human security—in rich countries and poor.

One achievement of recent decades has been greater security for people in many countries—more political freedom and stability in Chile, peace in Central America, safer streets in the United States. But in the globalizing world of shrinking time, shrinking space and disappearing borders, people are confronting new threats to human security—sudden and hurtful disruptions in the pattern of daily life.

Financial volatility and economic insecurity. The financial turmoil in East Asia in 1997–99 demonstrates the risks of global financial markets. Net capital flows to Indonesia, the Republic of Korea, Malaysia, the Philippines and Thailand rocketed in the 1990s, reaching \$93 billion in 1996. As turmoil hit market after market, these flows reversed overnight—with an outflow of The past decade has shown increasing concentration of income, resources and wealth among people, corporations and countries \$12 billion in 1997. The swing amounted to 11% of the precrisis GDPs of these countries. Two important lessons come out of this experience.

First, the human impacts are severe and are likely to persist long after economic recovery.

Bankruptcies spread. Education and health budgets came under pressure. More than 13 million people lost their jobs. As prices of essentials rose sharply, real wages fell sharply, down some 40–60% in Indonesia. The consequences go deeper—all countries report erosion of their social fabric, with social unrest, more crime, more violence in the home.

Recovery seems to be on the way, most evidently in Korea and least in Indonesia. But while output growth, payment balances, interest rates and inflation may be returning to normal, human lives take longer to recover. A review of financial crises in 80 countries over the past few decades shows that real wages take an average of three years to pick up again, and that employment growth does not regain precrisis levels for several years after that.

Second, far from being isolated incidents, financial crises have become increasingly common with the spread and growth of global capital flows. They result from rapid buildups and reversals of short-term capital flows and are likely to recur. More likely when national institutions regulating financial markets are not well developed, they are now recognized as systemic features of global capital markets. No single country can withstand their whims, and global action is needed to prevent and manage them.

Job and income insecurity. In both poor and rich countries dislocations from economic and corporate restructuring, and from dismantling the institutions of social protection, have meant greater insecurity in jobs and incomes. The pressures of global competition have led countries and employers to adopt more flexible labour policies with more precarious work arrangements. Workers without contracts or with new, less secure contracts make up 30% of the total in Chile, 39% in Colombia.

France, Germany, the United Kingdom and other countries have weakened worker dismissal laws. Mergers and acquisitions have come with corporate restructuring and massive layoffs. Sustained economic growth has not reduced unemployment in Europe—leaving it at 11% for a decade, affecting 35 million. In Latin America growth has created jobs, but 85% of them are in the informal sector.

Health insecurity. Growing travel and migration have helped spread HIV/AIDS. More than 33 million people were living with HIV/AIDS in 1998, with almost 6 million new infections in that year. And the epidemic is now spreading rapidly to new locations, such as rural India and Eastern Europe and the CIS. With 95% of the 16,000 infected each day living in developing countries, AIDS has become a poor person's disease, taking a heavy toll on life expectancy, reversing the gains of recent decades. For nine countries in Africa, a loss of 17 years in life expectancy is projected by 2010, back to the levels of the 1960s.

Cultural insecurity. Globalization opens people's lives to culture and all its creativity—and to the flow of ideas and knowledge. But the new culture carried by expanding global markets is disquieting. As Mahatma Gandhi expressed so eloquently earlier in the century, "I do not want my house to be walled in on all sides and my windows to be stuffed. I want the cultures of all the lands to be blown about my house as freely as possible. But I refuse to be blown off my feet by any." Today's flow of culture is unbalanced, heavily weighted in one direction, from rich countries to poor.

Weightless goods—with high knowledge content rather than material content—now make for some of the most dynamic sectors in today's most advanced economies. The single largest export industry for the United States is not aircraft or automobiles, it is entertainment—Hollywood films grossed more than \$30 billion worldwide in 1997.

The expansion of global media networks and satellite communications technologies gives rise to a powerful new medium with a global reach. These networks bring Hollywood to remote villages—the number of television sets per 1,000 people almost doubled between 1980 and 1995, from 121 to 235. And the spread of global brands—Nike, Sony—is setting new social standards from Delhi to Warsaw to Rio de Janeiro. Such onslaughts of

Globalization opens
people's lives to culture
and all its creativity—and
to the flow of ideas and
knowledge

foreign culture can put cultural diversity at risk, and make people fear losing their cultural identity. What is needed is support to indigenous and national cultures—to let them flourish alongside foreign cultures.

Personal insecurity. Criminals are reaping the benefits of globalization. Deregulated capital markets, advances in information and communications technology and cheaper transport make flows easier, faster and less restricted not just for medical knowledge but for heroin—not just for books and seeds but for dirty money and weapons.

Illicit trade—in drugs, women, weapons and laundered money—is contributing to the violence and crime that threaten neighbourhoods around the world. Drug-related crimes increased from 4 per 100,000 people in Belarus in 1990 to 28 in 1997, and from 1 per 100,000 to 8 in Estonia. The weapons trade feeds street crime as well as civil strife. In South Africa machine guns are pouring in from Angola and Mozambique. The traffic in women and girls for sexual exploitation—500,000 a year to Western Europe alone—is one of the most heinous violations of human rights, estimated to be a \$7 billion business.

The Internet is an easy vehicle for trafficking in drugs, arms and women through nearly untraceable networks. In 1995 the illegal drug trade was estimated at 8% of world trade, more than the trade in motor vehicles or in iron and steel. Money laundering—which the International Monetary Fund (IMF) estimates at equivalent to 2–5% of global GDP—hides the traces of crime in split seconds, with the click of a mouse.

At the root of all this is the growing influence of organized crime, estimated to gross \$1.5 trillion a year, rivalling multinational corporations as an economic power. Global crime groups have the power to criminalize politics, business and the police, developing efficient networks, extending their reach deep and wide.

Environmental insecurity. Chronic environmental degradation—today's silent emergency—threatens people worldwide and undercuts the livelihoods of at least half a billion people. Poor people themselves, having lit-

tle choice, put pressure on the environment, but so does the consumption of the rich. The growing export markets for fish, shrimp, paper and many other products mean depleted stocks, less biodiversity and fewer forests. Most of the costs are borne by the poor—though it is the world's rich who benefit most. The fifth of the world's people living in the richest countries consume 84% of the world's paper.

Political and community insecurity. Closely related to many other forms of insecurity is the rise of social tensions that threaten political stability and community cohesion. Of the 61 major armed conflicts fought between 1989 and 1998, only three were between states—the rest were civil.

Globalization has given new characteristics to conflicts. Feeding these conflicts is the global traffic in weapons, involving new actors and blurring political and business interests. In the power vacuum of the post-cold war era, military companies and mercenary armies began offering training to governments—and corporations. Accountable only to those who pay them, these hired military services pose a severe threat to human security.

New information and communications technologies are driving globalization—but polarizing the world into the connected and the isolated.

With the costs of communications plummeting and innovative tools easier to use, people around the world have burst into conversation using the Internet, mobile phones and fax machines. The fastest-growing communications tool ever, the Internet had more than 140 million users in mid-1998, a number expected to pass 700 million by 2001.

Communications networks can foster great advances in health and education. They can also empower small players. The previously unheard voices of NGOs helped halt the secretive OECD negotiations for the Multilateral Agreement on Investment, called for corporate accountability and created support for marginal communities. Barriers of size, time and distance are coming down for small businesses,

With the costs of communications plummeting and innovative tools easier to use, people around the world have burst into conversation

for governments of poor countries, for remote academics and specialists.

Information and communications technology can also open a fast track to knowledge-based growth—a track followed by India's software exports, Ireland's computing services and the Eastern Caribbean's data processing.

Despite the potential for development, the Internet poses severe problems of access and exclusion. Who was in the loop in 1998?

- Geography divides. Thailand has more cellular phones than Africa. South Asia, home to 23% of the world's people, has less than 1% of Internet users.
- Education is a ticket to the network high society. Globally, 30% of users had at least one university degree.
- Income buys access. To purchase a computer would cost the average Bangladeshi more than eight years' income, the average American, just one month's wage.
- Men and youth dominate. Women make up just 17% of the Internet users in Japan, only 7% in China. Most users in China and the United Kingdom are under 30.
- English talks. English prevails in almost 80% of all Websites, yet less than one in 10 people worldwide speaks it.

This exclusivity is creating parallel worlds. Those with income, education and—literally—connections have cheap and instantaneous access to information. The rest are left with uncertain, slow and costly access. When people in these two worlds live and compete side by side, the advantage of being connected will overpower the marginal and impoverished, cutting off their voices and concerns from the global conversation.

This risk of marginalization does not have to be a reason for despair. It should be a call to action for:

- More connectivity: setting up telecommunications and computer hardware.
- More community: focusing on group access, not just individual ownership.
- More capacity: building human skills for the knowledge society.
- *More content*: putting local views, news, culture and commerce on the Web.
- More creativity: adapting technology to local needs and opportunities.

- More collaboration: developing Internet governance to accommodate diverse national needs.
- More cash: finding innovative ways to fund the knowledge society everywhere.

Global technological breakthroughs offer great potential for human advance and for eradicating poverty—but not with today's agendas.

Liberalization, privatization and tighter intellectual property rights are shaping the path for the new technologies, determining how they are used. But the privatization and concentration of technology are going too far. Corporations define research agendas and tightly control their findings with patents, racing to lay claim to intellectual property under the rules set out in the agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

Poor people and poor countries risk being pushed to the margin in this proprietary regime controlling the world's knowledge:

- In defining research agendas, money talks, not need—cosmetic drugs and slow-ripening tomatoes come higher on the priority list than drought-resistant crops or a vaccine against malaria.
- From new drugs to better seeds, the best of the new technologies are priced for those who can pay. For poor people, they remain far out of reach.
- Tighter property rights raise the price of technology transfer, blocking developing countries from the dynamic knowledge sectors. The TRIPS agreement will enable multinationals to dominate the global market even more easily.
- New patent laws pay scant attention to the knowledge of indigenous people. These laws ignore cultural diversity in the way innovations are created and shared—and diversity in views on what can and should be owned, from plant varieties to human life. The result: a silent theft of centuries of knowledge from some of the poorest communities in developing countries.
- Despite the risks of genetic engineering, the rush and push of commercial interests are putting profits before people.

Poor people and poor countries risk being pushed to the margin in this proprietary regime controlling the world's knowledge

A broader perspective is needed. Intellectual property rights were first raised as a multilateral trade issue in 1986 to crack down on counterfeit goods. The reach of those rights now goes far beyond that—into the ownership of life. As trade, patents and copyright determine the paths of technology—and of nations—questioning today's arrangements is not just about economic flows. It is about preserving biodiversity. Addressing the ethics of patents on life. Ensuring access to health care. Respecting other cultures' forms of ownership. Preventing a growing technological gap between the knowledge-driven global economy and the rest trapped in its shadows.

## The relentless pressures of global competition are squeezing out care, the invisible heart of human development.

Caring labour—providing for children, the sick and the elderly, as well as all the rest of us, exhausted from the demands of daily life—is an important input for the development of human capabilities. It is also a capability in itself. And it is special—nurturing human relationships with love, altruism, reciprocity and trust. Without enough care, individuals do not flourish. Without attention and stimulus, babies languish, failing to reach their full potential. And without nurturing from their families, children underperform in school.

Human support to others is essential for social cohesion and a strong community. It is also essential for economic growth. But the market gives few incentives and few rewards for it. Societies everywhere have allocated women much of the responsibility and the burden for care—women spend two-thirds of their work time in unpaid activities, men only a quarter. Women predominate in caring professions and domestic service. Families, nations and corporations have been free-riding on caring labour provided mostly by women, unpaid or underpaid.

But today's competitive global market is putting pressures on the time, resources and incentives for the supply of caring labour. Women's participation in the formal labour market is rising, yet they continue to carry the burden of care—women's hours spent in unpaid work remain high. In Bangladesh

women in the garment industry spend 56 hours a week in paid employment on top of 31 hours in unpaid work—a total of 87 hours, compared with 67 by men. Men's share of unpaid care work is increasing slowly in Europe and other OECD countries but not in most developing countries and in Eastern Europe.

Meanwhile, fiscal pressures are cutting back on the supply of state-provided care services. Tax revenue declined in poor countries from 18% of GDP in the early 1980s to 16% in the 1990s. Public services deteriorated markedly—the result of economic stagnation, structural adjustment programmes or the dismantling of state services, especially in the transition economies of Eastern Europe and the CIS.

And global economic competition has put pressure on the wages for caring labour, as the wage gap increases between tradable and nontradable sectors, and between the skilled and unskilled.

How can societies design new arrangements for care in the global economy? The traditional model of a patriarchal household is no solution—a new approach must build gender equity into sharing the burdens and responsibility for care. New institutional mechanisms, better public policy and a social consensus are needed to provide incentives for rewarding care and increasing its supply and quality:

- Public support for care services—such as care for the elderly, day care for children and protection of social services during crises.
- Labour market policies and employer action to support the care needs of employees.
- More gender balance and equity in carrying the burden of household care services.

Each society needs to find its own arrangements based on its history and conditions. But all societies need to devise a better solution. And all need to make a strong commitment to preserving time and resources for care—and the human bonds that nourish human development.

National and global governance have to be reinvented—with human development and equity at their core.

None of these pernicious trends—growing marginalization, growing human insecurity,

All need to make a strong commitment to preserving time and resources for care—and the human bonds that nourish human development

With stronger
governance, the benefits
of competitive markets
can be preserved with
clear rules and
boundaries, and stronger
action can be taken to
meet the needs of human
development

growing inequality—is inevitable. With political will and commitment in the global community, they can all be reversed. With stronger governance—local, national, regional and global—the benefits of competitive markets can be preserved with clear rules and boundaries, and stronger action can be taken to meet the needs of human development.

Governance does not mean mere government. It means the framework of rules, institutions and established practices that set limits and give incentives for the behaviour of individuals, organizations and firms. Without strong governance, the dangers of global conflicts could be a reality of the 21st century—trade wars promoting national and corporate interests, uncontrolled financial volatility setting off civil conflicts, untamed global crime infecting safe neighbourhoods and criminalizing politics, business and the police.

With the market collapse in East Asia, with the contagion to Brazil, Russia and elsewhere and with the threat of a global recession still looming, global governance is being re-examined. But the current debate is:

- Too narrow, limited to the concerns of economic growth and financial stability and neglecting broader human concerns such as persistent global poverty, growing inequality between and within countries, exclusion of poor people and countries and persisting human rights abuses.
- Too geographically unbalanced, dominated by the largest economies—usually the G-7, sometimes just the G-1, and only occasionally bringing in the large newly industrializing countries. Most small and poor developing countries are excluded, as are people's organizations.

Nor does the debate address the current weaknesses, imbalances and inequities in global governance—which, having developed in an ad hoc way, leaves many gaps.

- Multilateral agreements have helped establish global markets without considering their impacts on human development and poverty.
- The structures and processes for global policy-making are not representative. The key economic structures—the IMF, World Bank, G-7, G-10, G-22, OECD, WTO—are dominated by the large and rich countries, leaving

poor countries and poor people with little influence and little voice, either for lack of membership or for lack of capacity for effective representation and participation. There is little transparency in decisions, and there is no structured forum for civil society institutions to express their views.

 There are no mechanisms for making ethical standards and human rights binding for corporations and individuals, not just governments.

In short, stronger national and global governance are needed for human well-being, not for the market.

Reinventing governance for the 21st century must start with strong commitments:

- FOR THE HUMAN RIGHTS OF ALL PEOPLE. Global governance requires a common core of values, standards and attitudes, a widely felt sense of responsibility and obligations—not just by individuals, but by governments, corporations and civil society organizations. The core values of respect for life, liberty, justice, equality, tolerance, mutual respect and integrity underlie the Charter of the United Nations and the Universal Declaration of Human Rights. They now need to be the guiding objectives of globalization with a human face.
- TO HUMAN WELL-BEING AS THE END, WITH OPEN MARKETS AND ECONOMIC GROWTH AS MEANS. Human development and social protection have to be incorporated in the principles and practices of global governance. Recent advances in global governance have been built on concepts and principles of economic efficiency and competitive markets. These are important but not enough, just as they would be in national governance.
- To respect for the diverse conditions and needs of each country. Economic policy-making should be guided by pragmatism rather than ideology—and a recognition that what works in Chile does not necessarily work in Argentina, what is right for Mauritius may not work for Madagascar. Open markets require institutions to function, and policies to ensure equitable distribution of benefits and opportunities. And with the great diversity of institutions and traditions, countries around the world need flexibility in adapting economic policies and timing their implementation.

• To the accountability of all actors. Multilateral agreements and international human rights regimes hold only national governments accountable. National governance holds all actors accountable within national borders, but it is being overtaken by the rising importance of supranational global actors (multinational corporations) and international institutions (IMF, World Bank, WTO, Bank for International Sertlements). Needed are standards and norms that set limits and define responsibilities for all actors.

The agenda for action to secure human development in this era of globalization should focus on seven key challenges, each requiring national and international action.

# 1. Strengthen policies and actions for human development, and adapt them to the new realities of the global economy.

Social policies—and national governance—are even more relevant today to make globalization work for human development and to protect people against its new threats. New policies are needed to tackle:

- Changing labour markets—not by going back to the old rigidities of labour market policies that protect elite labour, but by promoting job-creating growth, investing in workers' skills, promoting labour rights and making informal work more productive and remunerative. This is the new road to flexibility in the labour market.
- Shrinking fiscal resources of states, the results of liberalizing trade and financial markets, of the global tax competition and of the growth of the underground economy—by generating more revenue from new sources, such as taxes on income and land, abysmally low in many developing countries, or on value added; by improving efficiency in tax administration, cutting costs and increasing collections; by reducing military spending globally, still as high as a third of education and health spending.
- Increasing pressures on people's ability to provide caring labour in the family and community and on the state's ability to support it by restoring strong commitments to preserving time, resources and rewards for care and restoring gender balance in the distribution of costs and burdens.

 Declining cultural diversity—by supporting national cultures, not by shutting out imports but by supporting local culture, arts and artists.

All countries need to rethink their social policies—for redistribution, for safety nets, for the universal provision of social services. The current debate focuses on the choice between a targeted, minimum cost approach, as in such countries as the United Kingdom and the United States, and a more universalist approach, as in the Nordic countries and several continental European countries. What is appropriate for developing countries? An approach that combines human development and poverty eradication with social protection.

# 2. Reduce the threats of financial volatility—of the boom and bust economy—and all their human costs.

Last year's financial crisis in East Asia spotlighted the inadequacies of national and global governance in managing economic and financial integration. Dominating the financial markets are the big players—from the United States to Brazil to China. But all countries are affected by the swings of the world economy from South Africa to the Lao People's Democratic Republic—particularly if they have opened their economies. While countries need to manage their vulnerabilities to these swings, international action is needed to manage and prevent financial instability. Policy should focus on:

- Liberalizing the capital account more carefully, with less international pressure and greater flexibility for countries to decide on the pace and phasing based on their institutional capacities.
- Subjecting financial institutions to greater transparency and accountability. Developing countries need to strengthen the legal and regulatory institutions in their financial sectors.
- Integrating macroeconomic management and social policies to reduce the impact of financial turmoil on the economy and to minimize the social costs.
- Strengthening international action to regulate and supervise banking systems—building on the provisions of the Basle Committee and

Social policies—and
national governance—are
even more relevant today
to make globalization
work for human
development and
to protect people
against its new threats

Stronger global
cooperation and action
are needed to address the
growing problems beyond
the scope of national
governments to manage

the G-10 in requiring greater transparency and disclosure of information both nationally and internationally. The UN Economic and Social Council (ECOSOC), the World Bank and the IMF should conduct an international study of regulatory gaps, especially for short-term bank loans, for reversible portfolio flows and for the activities of hedge funds.

- Instituting standstill provisions on debt service to the IMF, the World Bank and the regional development banks, as proposed by the recent UN task force on the architecture of the international financial system.
- Developing better institutions of early warning and crisis management. The international community mobilized more than \$170 billion in the 1997~99 financial crisis for Thailand, Indonesia, Korea, Russia and Brazil. But what ultimately is needed is a true lender of last resort, with more resources than the IMF is now equipped to provide. A world central bank to perform the functions of a lender of last resort should be seriously considered.
- Establishing an international lender of last resort for people—to complement financial packages. The real losses and risks from financial crises are felt by people, and a parallel funding mechanism should be established to protect them—and their rights to development.

# 3. Take stronger global action to tackle global threats to human security.

Stronger global cooperation and action are needed to address the growing problems beyond the scope of national governments to manage.

- The fight against global crime requires national police to take cooperative action as rapidly as the crime syndicates do. Dismantling bank secrecy and providing witness protection for foreign investigations would dramatically improve the effectiveness of the global fight against global crime. The proposed United Nations Convention against Transnational Organized Crime is an important first step deserving support.
- The "loud emergencies" of environmental degradation (acid rain, global warming and ozone depletion) have transboundary consequences, particularly for poor people and

nations. Such emergencies demand global action, with initiatives building on the progress at the global conferences in Kyoto and Buenos Aires and on proposals for tradable permits and clean development mechanisms.

- Violations of human rights are often observed in export processing zones and in the factories of multinational corporations. The international community should formulate codes of conduct for multinationals to safeguard workers' rights.
- More global action is essential to address HIV/AIDS, which is penetrating borders everywhere. Efforts should be directed at disseminating the benefits of research from developed to developing countries, providing medicines and preventive measures at reasonable cost in developing countries and strengthening public health systems in the developing world.

# 4. Enhance public action to develop technologies for human development and the eradication of poverty.

The potential of the new technologies for human development and poverty eradication must be tapped.

- Intellectual property rights under the TRIPS agreement need comprehensive review to redress their perverse effects undermining food security, indigenous knowledge, biosafety and access to health care.
- The governance of global communications especially the Internet—must be broadened to embrace the interests of developing countries in decisions on Internet protocols, taxation, domain name allocation and telephony costs.
- Public investments are needed in technologies for the needs of poor people and poor countries—in everything from seeds to computers. An international programme should be launched to support this, based on the model of the Consultative Group on International Agricultural Research (CGIAR).
- New funds must be raised to ensure that the information revolution leads to human development. A "bit" tax and a patent tax could raise funds from those who already have access to technology, with the proceeds used to extend the benefits to all.

## Reverse the marginalization of poor, small countries.

Nearly 30 years ago the Pearson Commission began its report with the recognition that "the widening gap between the developed and the developing countries has become the central problem of our times." But over the past three decades the income gap between the world's richest fifth and its poorest fifth has more than doubled, to 74 to 1. And with that gap comes migration, environmental pressure, conflict, instability and other problems rooted in poverty and inequality.

Narrowing the gaps between rich and poor and the extremes between countries should become explicit global goals—to be rigorously monitored by ECOSOC and the Bretton Woods institutions. These would complement the goals for poverty reduction and social advance agreed to in the global conferences of the 1990s.

Action can start at the national level. All countries need strong and coherent policies for managing their integration into the rapidly changing global economy:

- To capture the opportunities of markets in trade and investment, each country should adopt a coordinated policy package. As the better-performing countries in each region have shown the Dominican Republic, Ireland, Poland, Tunisia—the fundamentals do not stop with sound macroeconomic management. They must build on widely spread human capabilities, better incentive structures and sound governance.
- To negotiate more favourable provisions in multilateral agreements, poor and small countries should pursue active participation in the global dialogues on multilateral agreements—from their development to negotiations to implementation. In trade, for example, to negotiate for more rapid implementation of the agreement on textiles and clothing, for a reduction of agricultural tariffs and subsidies and for a slower pace in implementing the TRIPS agreement.

Poor and small countries can gain from collective action to link negotiations on intellectual property rights with rights to emit carbon into the atmosphere—and to link environmental assets, like rain forests, to negotiations on trade, debt and investment. They can also gain in negotiations by pooling resources for policy

analysis and developing common negotiating positions. Regional collective action is a first step in this direction.

Stronger international action is needed to support growth and accelerate human development in marginalized countries. This requires reversing the decline in flows of official development assistance (ODA), down by almost a fifth in real terms since 1992. Even without increasing resources, ODA can be much better targeted to the countries in greatest need, and to achieving key human development goals. Another priority is debt relief for the 41 heavily indebted poor countries (HIPCs), whose debt service amounted to \$11.1 billion in 1996 and whose debt payments have been squeezing spending on education and health. The HIPC initiative is welcome—but it delivers too little too late. Why not reduce the ceiling for a country's debt burden from 200-250% of exports to 100% or less? And why not reduce from six vears to three (or even one) the performance requirement for eligibility?

6. Remedy the imbalances in the structures of global governance with new efforts to create a more inclusive system.

Poor countries and poor people have little influence and little voice in today's global policy-making forums. The most important and influential is the G-7, whose members control the Bretton Woods institutions through voting rights, and the UN Security Council by occupying three of the five permanent seats. There is no developing country equivalent to the G-7 or OECD—with similar levels of resources, consultation and policy coordination—though there have been many efforts to develop collective third world positions through such bodies as the G-15, the G-24 and the G-77.

Four actions could be rapidly set in motion to strengthen the bargaining position of the poor and small countries:

- Provide legal aid. WTO dispute settlement mechanisms can be fair only when the parties to a dispute have access to expert services of equal calibre to argue their case. An independent legal aid centre is needed to support poor countries.
- Appoint an ombudsman to respond to grievances and investigate injustices.

Narrowing the gaps
between rich and poor and
the extremes between
countries should become
explicit global goals

Support policy research. OECD countries arrive at multilateral forums with a battery of policy research to formulate and defend their positions. The UNDP South Centre set up to support developing countries is still grossly underfunded.
 Rely more on regional solidarity and

• Rely more on regional solidarity and regional institutions to develop common positions for negotiations. Regional support would help in crises, as with the regional fund for financial stability proposed in 1997. By using peer pressure, it would also help to maintain policies and practices consistent with economic and financial stability.

At the other extreme is the concentration of influence in rich countries, institutions and corporations—influence not yet used to ensure that globalization works for human development. The voting patterns of the Bretton Woods organizations need to be reviewed. Greater public accountability and more transparency would make their operations more democratic and increase their credibility. Multinational corporations influence the lives and welfare of billions of people, yet their accountability is limited to their shareholders, with their influence on national and international policy-making kept behind the scenes. If they were brought into the structures of global governance, their positions would become more transparent, and their social responsibilities subject to greater public accountability.

- A multilateral code of conduct needs to be developed for multinational corporations.
   Today, they are held to codes of conduct only for what national legislation requires on the social and environmental impact of their operations.
   True, they have in recent years taken up voluntary codes of ethical conduct. But multinationals are too important for their conduct to be left to voluntary and self-generated standards.
- National policies ensure free competition in national markets, but there is no parallel in global markets. *Human Development Report* 1994 proposed a world antimonopoly authority to monitor and implement competition rules for the global market. That authority could be included in the mandate of the WTO.
- A task force should be established on global economic governance—with perhaps 10 industrial and 10 developing countries, but

also with representatives of civil society and private financial and corporate actors. That task force would report to the key institutions of global governance: to ECOSOC, the IMF, the World Bank, as well as to the WTO.

 A joint World Bank-UN task force should be set up to investigate global inequalities and suggest policies and actions on how they can be narrowed over the next two or three decades. The task force should report to ECOSOC and to the World Bank Development Committee.

# 7. Build a more coherent and more democratic architecture for global governance in the 21st century.

Just as the nineteenth-century mechanisms of national government were inadequate for the challenges of the postwar era, so today's institutions of international governance are inadequate for the challenges of the 21st century. Many of the basic elements of national governance will be needed in a more robust structure of global governance. An essential aspect of global governance, as of national governance, is responsibility to people—to equity, to justice, to enlarging the choices of all.

Some of the key institutions of global governance needed for the 21st century include:

- A stronger and more coherent United Nations to provide a forum for global leader-ship with equity and human concerns.
- A global central bank and lender of last resort.
- A World Trade Organization that ensures both free and fair international trade, with a mandate extending to global competition policy with antitrust provisions and a code of conduct for multinational corporations.
- A world environment agency.
- A world investment trust with redistributive functions.
- An international criminal court with a broader mandate for human rights.
- A broader UN system, including a twochamber General Assembly to allow for civil society representation.

Even before these long-term changes are initiated or achieved, many actions could be taken in the next one to three years:

An essential aspect of

global governance is

to equity, to justice,

of all

responsibility to people-

to enlarging the choices

- Developing countries could take collective especially regional—initiatives to strengthen their positions in global negotiations in trade, intellectual property rights and other areas.
- Individual countries could set up a highlevel group to coordinate policy on globalization and manage their integration for a more positive impact on human development.
- Donor countries could accelerate action on debt relief and redirect aid in favour of poorer countries and human development priorities.
- An independent legal aid facility and ombudsman could be created to support the poor and weak countries in the WTO.
- All countries could cooperate more to fight global crime, relaxing restrictive bank secrecy laws.
- New sources of financing for the global technology revolution could be investigated, to ensure that it is truly global and that its potential for poverty eradication is mobilized. Two proposals: a bit tax to generate resources, and a public programme for development technology similar to CGIAR's programme for food.
- A representative task force could be set up to review global economic governance, including some 20 or so countries—large and small,

rich and poor—but also the private sector and the civil society. It could report jointly to ECOSOC, the IMF Interim Committee and the World Bank Development Committee.

. . .

The surge of globalization over the past decade or two is only a beginning. The globally integrated world will require stronger governance if it is to preserve the advantages of global market competition, and to turn the forces of globalization to support human advance.

On the eve of the millenium, people are unusually expectant of a more fundamental diagnosis, more ready to receive it, more eager to act on it. Millenium fever is already stimulating many groups to sketch out their visions of the future—for their community, their country and their planet. The future of global governance—objectives, institutions, responsibilities and actions—needs to be part of this exploration by people everywhere. And the Millenium Assembly of the United Nations is a global forum that could provide powerful momentum for moving the agenda forward.

Stronger governance is needed to preserve the advantages of global market competition, and to turn the forces of globalization to support human advance

# TEN YEARS OF HUMAN DEVELOPMENT

When I was arguing that helping a one-meal family

to become a two-meal family, enabling a woman without a change of clothing

to afford to buy a second piece of clothing, is a development miracle,

I was ridiculed. That is no development, I was reminded sternly.

Development is growth of the economy, they said; growth will bring everything.

We carried out our work as if we were engaged in some very undesirable activities.

When UNDP's Human Development Report came out we felt vindicated.

We were no longer back-street operators, we felt we were in the mainstream.

Thanks, Human Development Report.

PROFESSOR MUHAMMAD YUNUS, FOUNDER, GRAMEEN BANK, BANGLADESH

# Ten years of human development

SPECIAL CONTRIBUTION

In 1990 the time had come for a broad approach to improving human well-being that would cover all aspects of human life, for all people, in both high-income and developing countries, both now and in the future. It went far beyond narrowly defined economic development to cover the full flourishing of all human choices. It emphasized the need to put people—their needs, their aspirations and their capabilities—at the center of the development effort. And the need to assert the unacceptability of any biases or discrimination, whether by class, gender, race, nationality, religion, community or generation. Human development had arrived.

The first *Human Development Report* of UNDP, published in 1990 under the inspiration and leadership of its architect, Mahbub ul Haq, came after a period of crisis and retrenchment, in which concern for people had given way to concern for balancing budgets and payments. It met a felt need and was widely welcomed. Since then it has caused considerable academic discussion in journals and seminars. It has caught the world's imagination, stimulating criticisms and debate, ingenious elaborations, improvements and additions.

Human development is the process of enlarging people's choices—not just choices among different detergents, television channels or car models but the choices that are created by expanding human capabilities and functionings—what people do and can do in their lives. At all levels of development a few capabilities are essential for human development, without which many choices in life would not be available. These capabilities are to lead long and healthy lives, to be knowledgeable and to have access to the resources needed for a decent standard of living—and these are reflected in the human development index. But many additional choices are valued by people. These include political, social, economic and cultural freedom, a sense of community, opportunities for being creative and productive, and self-respect and human rights. Yet human development is more than just achieving these capabilities; it is also the process of pursuing them in a way that is equitable, participatory, productive and sustainable.

Choices will change over time and can, in principle, be infinite. Yet infinite choices without limits and constraints can become pointless and mindless. Choices have to be combined with allegiances, rights with duties, options with bonds. liberties with ligatures. Today we see a reaction against the extreme individualism of the free market approach towards what has come to be called communitarianism. The exact

combination of individual and public action, of personal agency and social institutions, will vary from time to time and from problem to problem. Institutional arrangements will be more important for achieving environmental sustainability, personal agency more important when it comes to the choice of household articles or marriage partners. But some complementarity will always be necessary.

Getting income is one of the options people would like to have. It is important but not an all-important option. Human development includes the expansion of income and wealth, but it includes many other valued and valuable things as well.

For example, in investigating the priorities of poor people, one discovers that what matters most to them often differs from what outsiders assume. More income is only one of the things poor people desire. Adequate nutrition, safe water at hand, better medical services, more and better schooling for their children, cheap transport, adequate shelter, continuing employment and secure livelihoods and productive, remunerating, satisfying jobs do not show up in higher income per head, at least not for some time.

There are other non-material benefits that are often more highly valued by poor people than material improvements. Some of these partake in the characteristics of rights, others in those of states of mind. Among these are good and safe working conditions, freedom to choose jobs and livelihoods, freedom of movement and speech, liberation from oppression, violence and exploitation, security from persecution and arbitrary arrest, a satisfying family life, the assertion of cultural and religious values, adequate leisure time and satisfying forms of its use, a sense of purpose in life and work, the opportunity to join and actively participate in the activities of civil society and a sense of belonging to a community. These are often more highly valued than income, both in their own right and as a means to satisfying and productive work. They do not show up in higher income figures. No policy-maker can guarantee the achievement of all, or even the majority, of these aspirations, but policies can create the opportunities for their fulfilment.

PAUL STREETEN

P. P. Killer

## Human Development Reports have had a significant impact worldwide.

Up until the publication of these Reports, discussions on development centred on economic growth, using variables such as per capita income growth. Of course these economic variables also generate some social benefits. But this view of development had been quite limited. While a country could perfectly well be considered highly developed, income might be concentrated in the hands of a few, and poverty worsening... Speaking as President of Brazil, until today the country is plagued by a lot of problems—income concentration, poverty, and so on.

If we do not adopt a development model that responds to the needs of the majority, this development will not be long-lasting.

FERNANDO HENRIQUE CARDOSO, PRESIDENT, BRAZIL

This year's Report marks the tenth anniversary of the Human Development Report. Each year since being launched in 1990, the Report has focused on different themes and introduced new concepts and approaches. But the central concern has always been people as the purpose of development, and their empowerment as participants in the development process. The Report puts economic growth into perspective: it is a means—a very important one—to serve human ends, but it is not an end in itself.

#### ACCOUNTING FOR THE FIRST 10 YEARS

How has human development changed since the Report was first published in 1990? A balance sheet of human development in 1990–97 shows tremendous progress—but also enduring deprivations and new setbacks.

### POLICY PROPOSALS OVER THE YEARS

Each year the *Human Development Report* has made strong policy recommendations, for both national and international action. The proposals, some emphasizing suggestions by others, some putting forward new approaches, have drawn both criticism and praise. But most important, they have helped to open policy debates to wider possibilities.

#### GLOBAL PROPOSALS

Global proposals have been aimed at contributing to a new paradigm of sustainable human development—based on a new concept of human security, a new partnership of developed and developing countries, new forms of international cooperation and a new global compact.

THE 20:20 INITIATIVE (1992). With the aim of turning both domestic and external priorities to basic human concerns, this initiative proposed that every developing country allocate 20% of its domestic budget, and every donor 20% of its official development assistance (ODA), to ensuring basic health care, basic education, access to safe water and basic sanitation, and basic family planning packages for all couples.

GLOBAL HUMAN SECURITY FUND (1994). This fund would tackle drug trafficking, international terrorism, communicable diseases, nuclear proliferation, natural disasters, ethnic conflicts, excessive international migration and global environmental pollution and degradation. The fund of \$250 billion a year would be financed with \$14 billion from a proportion of the peace dividend (20% of the amount saved by industrial countries and 10% of that saved by developing countries through a 3% reduction in global military spending); \$150 billion from a 0.05% tax on speculative international capital movements; \$66 billion from a global energy tax (\$1 per barrel of oil or its equivalent in coal consumption) and \$20 billion from a one-third share of ODA.

A NEW GLOBAL ARCHITECTURE (1994). A globalizing world needs new institutions to deal with problems that nations alone cannot solve:

- An economic security council—to review the threats to human security.
- A world central bank—to take on global macroeconomic management and supervision of international banking.
- An international investment trust—to recycle international surpluses to developing countries.
- A world antimonopoly authority—to monitor the

The issues raised by this Report [Human Development Report 1995] are of central importance to all of us....

In country after country women have demonstrated that when given the tools of opportunity—education, health care, access to credit, political participation and legal rights—they can lift themselves out of poverty, and as women realize their potential, they lift their families, communities and nations as well.... This Report not only provides a graphic portrait of the problems facing today's women, but also opens up the opportunity for a serious dialogue about possible solutions. It challenges governments, communities and individuals to enter into this conversation in a common effort to overcome shared problems.

HILLARY RODHAM CLINTON, FIRST LADY, THE UNITED STATES

activities of multinational corporations and ensure that markets are competitive.

A TIMETABLE TO ELIMINATE LEGAL GENDER DISCRIMINATION (1995). As of December 1998, 163 countries had ratified the 1979 Convention on the Elimination of All Forms of Discrimination Against Women (CEDAW), but others—including the United States—had not. Women's rights are human rights. There should be a timetable for recognizing legal equality between women and men everywhere, say by 2005, using CEDAW as the framework.

### NATIONAL PROPOSALS

National proposals have focused on the centrality of people in development, on the need for a new partnership between the state and the market and on new forms of alliance between governments, institutions of civil society, communities and people.

RESTRUCTURING SOCIAL EXPENDITURES (1991). Resources should be reallocated to basic human priority concerns through an analysis of a country's total expenditure, social expenditure and human priority spending ratios. The key is to move away from military spending towards social spending—and to shift the focus to primary human concerns: better education, health services and safe water accessible to poor people.

A CRITICAL THRESHOLD OF 30% FOR WOMEN'S REPRESENTA-TION (1995). Women must have a critical 30% representation in all decision-making processes—economic, political and social—nationally and locally. Reaching this threshold is essential to enable women to influence decisions that affect their lives. And to achieve gender equality, social norms and practices must be changed, and women's access to social services, productive resources and all other opportunities made equal to men's.

PRO-POOR GROWTH (1996). The quality of economic growth is as important as its quantity. For human development, growth should be job-creating rather than *jobless*, poverty-reducing rather than *ruthless*, participatory rather than *voiceless*, culturally entrenched rather than *rootless* and environment-friendly rather than *futureless*. A growth strategy that aims for a more equitable distribution of assets, that is job-creating and labour-intensive, and that is decentralized can achieve such growth.

AGENDA FOR POVERTY ERADICATION (1997). People's empowerment is the key to poverty elimination and at the centre of a six-point agenda:

- Empower individuals, households and communities to gain greater control over their lives and resources.
- Strengthen gender equality to empower women.
- Accelerate pro-poor growth in low-income countries.
- Improve the management of globalization.
- Ensure an active state committed to eradicating poverty.
- Take special actions for special situations to support progress in the poorest and weakest countries.

## HUMAN DEVELOPMENT AS A NATIONAL TOOL

The human development approach has tremendous potential for analysing situations and policies at the national level. Two Human Development Centres have been established—the first in Islamabad, Pakistan, and the second in Guanajuanto, Mexico. More than 260 national and subnational human development reports

The Human Development Report has become an important instrument of policy and the concept of the human development index a fundamental tool in formulation of policy by government....

Growth and advancement must be measured by the extent to which it impacts positively on people, but the starting point must be human development. We need to focus particularly on the sectors of society that are the most disadvantaged—

women, youth, children, the elderly and the disabled.

THABO MBEKI, DEPUTY PRESIDENT, SOUTH AFRICA

have been produced over the years by 120 countries, in addition to nine regional reports. In each country these serve to bring together the facts, influence national policy and mobilize action. They have introduced the human development concept into national policy dialogue—not only through human development indicators and policy recommendations, but also through the country-led process of consultation, data collection and report writing.

SOUTH AFRICA—UNDERSTANDING THE FULL COSTS OF HIV/AIDS

South Africa has one of the fastest-spreading HIV epidemics in the world. The country's 1998 human development report provided startling information on how this will affect human development. Many of the advances achieved during the short life of the new democracy will be reversed if the epidemic goes unchecked. Developing and drafting the report brought critical gaps in information to light. The economic costs alone, in lost labour and sick days, are far greater than initially realized. The report has prompted plans for further study of the full costs—direct and indirect—of the epidemic to the government, to communities and to households.

INDIA—STATE REPORTS INFLUENCING POLICY

Many of India's 25 states rival medium-size countries in size, population and diversity. National-level aggregation would hide these important regional disparities. UNDP India has therefore supported the preparation of human development reports by state governments.

The government of Madhya Pradesh was the first to prepare a state report, in 1995, which helped bring human development into political discourse and planning. Its second report, in 1998, reflects the influence the first report had on planning. Social services now account for more than 42% of plan investment, compared with 19% in the previous plan budget. This success bodes well for other states, such as Gujarat, Karnataka and Rajasthan, preparing their first human development reports in 1999.

KUWAIT—INTRODUCING THE HUMAN DEVELOPMENT PERSPECTIVE

Kuwait's first human development report, in 1997, raised awareness of the human development concept and its relevance to the country's struggle to shift from dependence on oil towards a knowledge-based economy. The report's production and promotion helped advance new thinking in academia, research institutions and the government. The Ministry of Planning has started to incorporate the human development approach in its indicators for strategic planning and to monitor human development. The Arab Planning Institute has revised its curriculum to reflect the human development concept. And after the success of the first report, the Ministry of Planning is following up with a second, fully funded by the government.

GUATEMALA—ALERTING THE COUNTRY TO THE NEED FOR DATA

Guatemala's first human development report, in 1998, overcame data limitations to spotlight socio-economic disparities across regions, with a strong emphasis on statistics. Seen as the most complete document on Guatemalan society after the civil war, the report has

We, the people of the Earth, are one large family. The new epoch offers new challenges and new global problems, such as environmental catastrophes, exhaustion of resources, bloody conflicts and poverty. Every time I see children begging in the street, my heart is broken—it is our challenge and our shame that we are still unable to help those who are vulnerable—children in the first place. Whatever are the problems or perspectives for the future—the human dimension is what should be applied as the measure of all events, towards the implications of every political decision to be made. That is why the idea of human development promoted by UNDP is so important for us. I would like to thank UNDP for bringing to life both the important concept of human development, and these Reports.

EDUARD SHEVARDNADZE, PRESIDENT, GEORGIA

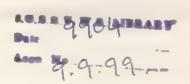
become a crucial source of information for NGOs, universities and the international community. And it has led Guatemala's government and civil society to recognize that the national system of statistics urgently needs strengthening—not only to support technical studies, but also to inform citizens as a requirement for democracy.

LATVIA AND LITHUANIA—NETWORKING ON HUMAN DEVELOPMENT

Latvia and Lithuania have published national human development reports every year since 1995. The reports have covered the social effects of transition, human settlements, social cohesion and poverty. Starting out by encouraging national debate on development challenges, the reports have now inspired a cross-border academic network. Scholars from three universities in each country are jointly developing a course curriculum to provide a multidisciplinary overview of human development and its relevance to Latvia and Lithuania. The reports will be part of the course curriculum.

CAMBODIA—HIGHLIGHTING GENDER DISCRIMINATION

Published annually since 1997, Cambodia's human development reports have provided a unique overview of human development in a country where scarcity of reliable statistical data has been a major obstacle in developing sustainable social and economic policies. The 1998 report drew public attention to the persistent discrimination against women in access to education and health care. This message was reinforced by a television documentary and four short spots on women in different occupations, broadcast by all five national television stations. The reports have received an enthusiastic response, and several NGOs and provincial government units are using them to train field staff and community workers. Encouraged by this reception, UNDP and the Cambodian government recently began transferring ownership of the report fully into Cambodian hands. The initiative, with the participation of many NGOs, seeks to strengthen local capacity in compiling and analysing data on human development.





# A balance sheet of human development, 1990-97

## GLOBAL PROGRESS

## GLOBAL DEPRIVATION

#### HEALTH

In 1997, 84 countries enjoyed a life expectancy at birth of more than 70 years, up from 55 countries in 1990. The number of developing countries in the group has more than doubled, from 22 to 49. Between 1990 and 1997 the share of the population with access to safe water nearly doubled, from 40% to 72%.

During 1990–97 the number of people infected with HIV/AIDS more than doubled, from less than 15 million to more than 33 million. Around 1.5 billion people are not expected to survive to age 60. More than 880 million people lack access to health services, and 2.6 billion access to basic sanitation.

### EDUCATION

Between 1990 and 1997 the adult literacy rate rose from 64% to 76%.

During 1990–97 the gross primary and secondary enrolment ratio increased from 74% to 81%.

In 1997 more than 850 million adults were illiterate. In industrial countries more than 100 million people were functionally illiterate. More than 260 million children are out of school at the primary and secondary levels.

### SOOD AND NUTRITION

Despite rapid population growth, food production per capita increased by nearly 25% during 1990–97.

The per capita daily supply of calories rose from less than 2,500 to 2,750, and that of protein from 71 grams to 76.

About 840 million people are malnourished.

The overall consumption of the richest fifth of the world's people is 16 times that of the poorest fifth.

### INCOME AND POVERTY

During 1990–97 real per capita GDP increased at an average annual rate of more than 1%.

Real per capita consumption increased at an average annual rate of 2.4% during the same period.

Nearly 1.3 billion people live on less than a dollar a day, and close to 1 billion cannot meet their basic consumption requirements.

The share in global income of the richest fifth of the world's people is 74 times that of the poorest fifth.

#### WOMEN

During 1990–97 the net secondary enrolment ratio for girls increased from 36% to 61%.

Between 1990 and 1997 women's economic activity rate rose from 34% to nearly 40%.

Nearly 340 million women are not expected to survive to age 40. A quarter to a half of all women have suffered physical abuse by an intimate partner.

### CHILDREN

Between 1990 and 1997 the infant mortality rate was reduced from 76 per 1,000 live births to 58.

The proportion of one-year-olds immunized increased from 70% to 89% during 1990–97.

Nearly 160 million children are malnourished.

More than 250 million children are working as child labourers.

#### ENVIRONMENT

Between 1990 and 1997 the share of heavily polluting traditional fuels in the energy used was reduced by more than two-fifths.

Every year nearly 3 million people die from air pollution—more than 80% of them from indoor air pollution—and more than 5 million die from diarrhoeal diseases caused by water contamination.

#### HUMANISECURITY

Between two-thirds and three-quarters of the people in developing countries live under relatively pluralist and democratic regimes.

At the end of 1997 there were nearly 12 million refugees.

### Assessing human development

SPECIAL CONTRIBUTION

The human development index (HDI), which the *Human Development Report* has made into something of a flagship, has been rather successful in serving as an alternative measure of development, supplementing GNP. Based as it is on three distinct components—indicators of longevity, education and income per head—it is not exclusively focused on economic opulence (as GNP is). Within the limits of these three components, the HDI has served to broaden substantially the empirical attention that the assessment of development processes receives.

However, the HDI, which is inescapably a crude index, must not be seen as anything other than an introductory move in getting people interested in the rich collection of information that is present in the Human Development Report. Indeed, I must admit I did not initially see much merit in the HDI itself, which, as it happens, I was privileged to help devise. At first I had expressed to Mahbub ul Haq, the originator of the Human Development Report, considerable scepticism about trying to focus on a crude index of this kind, attempting to catch in one simple number a complex reality about human development and deprivation. In contrast to the coarse index of the HDI, the rest of the Human Development Report contains an extensive collection of tables, a wealth of information on a variety of social, economic and political features that influence the nature and quality of human life. Why give prominence, it was natural to ask, to a crude summary index that could not begin to capture much of the rich information that makes the Human Development Report so engaging and important?

This crudeness had not escaped Mahbub at all. He did not resist the argument that the HDI could not be but a very limited indicator of development. But after some initial hesitation, Mahbub persuaded himself that the

dominance of GNP (an overused and oversold index that he wanted to supplant) would not be broken by any set of tables. People would look at them respectfully, he argued, but when it came to using a summary measure of development, they would still go back to the unadorned GNP, because it was crude but convenient. As I listened to Mahbub, I heard an echo of T. S. Eliot's poem "Burnt Norton": "Human kind/Cannot bear very much reality".

"We need a measure", Mahbub demanded, "of the same level of vulgarity as GNP—just one number—but a measure that is not as blind to social aspects of human lives as GNP is." Mahbub hoped that not only would the HDI be something of an improvement on—or at least a helpful supplement to—GNP, but also that it would serve to broaden public interest in the other variables that are plentifully analysed in the *Human Development Report*.

Mahbub got this exactly right, I have to admit, and I am very glad that we did not manage to deflect him from seeking a crude measure. By skilful use of the attracting power of the HDI, Mahbub got readers to take an involved interest in the large class of systematic tables and detailed critical analyses presented in the *Human Development Report*. The crude index spoke loud and clear and received intelligent attention and through that vehicle the complex reality contained in the rest of the Report also found an interested audience.

andy de .

AMARTYA SEN, 1998 NOBEL LAUREATE IN ECONOMICS

## Countries and regions that have produced human development reports

ARAB STATES

Algeria, 1999

Bahrain, 1997

Egypt, 1994, 1995, 1996, 1997/98

Iraq, 1995

Jordan, 1998

Kuwait, 1997, 1998

Lebanon, 1997, 1999

Libyan Arab Jamahiriya, 1998

Morocco, 1997, 1999

Occupied Palestinian territory, 1997

Somalia, 1998

Sudan, 1998

Syrian Arab Republic, 1999

Tunisia, 1999

United Arab Emirates, 1998

Yemen, 1998

ASIA AND THE PACIFIC

Bangladesh, 1992, 1993, 1994,

1995, 1996, 1997

Cambodia, 1997, 1998, 1999

China, 1997, 1999

India, Gujarat, 1999

India, Karnataka, 1999

India, Madhya Pradesh, 1995, 1998

India, Rajasthan, 1999

Iran, Islamic Rep. of, 1999

Korea, Rep. of, 1998

Lao People's Dem. Rep., 1998

Maldives, 1999

Mongolia, 1997, 1999

Myanmar, 1998

Nepal, 1998

Pakistan, 1992

Palau, 1999

Papua New Guinea, 1999

Philippines, 1994, 1997, 1999

Samoa (Western), 1998

Sri Lanka, 1998

Thailand, 1999

Vanuatu, 1996

Viet Nam, 1998

EASTERN EUROPE AND THE CIS

Albania, 1995, 1996, 1997, 1998

Armenia, 1995, 1996, 1997, 1998

Azerbaijan, 1995, 1996, 1997,

1998, 1999

Belarus, 1995, 1996, 1997, 1998

Bosnia and Herzegovina, 1999

Bulgaria, 1995, 1996, 1997, 1998, 1999

a. Subnational report.

Source: Human Development Report Office.

Bulgaria, Sofia, 1997

Croatia, 1997, 1998

Czech Republic, 1996, 1997, 1998

Estonia, 1995, 1996, 1997, 1998

Georgia, 1995, 1996, 1997, 1998

Hungary, 1995, 1996, 1998

Kazakhstan, 1995, 1996, 1997,

1998, 1999

Kyrgyzstan, 1995, 1996, 1997,

1998, 1999

Latvia, 1995, 1996, 1997, 1998, 1999

Lithuania, 1995, 1996, 1997,

1998, 1999

Macedonia, 1997, 1998

Malta, 1996

Moldova, Rep. of, 1995, 1996,

1997, 1998

Poland, 1995, 1996, 1997, 1998, 1999

Romania, 1995, 1996, 1997, 1998

Russian Federation, 1995, 1996,

1997, 1998

Slovakia, 1995, 1997, 1998

Tajikistan, 1995, 1996, 1997, 1998

Turkey, 1995, 1996, 1997, 1998

Turkmenistan, 1995, 1996, 1997, 1998

Ukraine, 1995, 1996, 1997, 1998

Uzbekistan, 1995, 1996, 1997, 1998

Yugoslavia, 1996, 1997

LATIN AMERICA AND THE CARIBBEAN

Argentina, 1995, 1996, 1997,

1998, 1999

Argentina, Buenos Aires,\* 1996, 1997,

1998, 1999

Belize, 1997

Bolivia, 1998

Bolivia, Cochabamba, 1995

Bolivia, La Paz, 1995

Bolivia, Santa Cruz,<sup>a</sup> 1995

Brazil, 1996

Chile, 1996, 1998

Colombia, 1998

Costa Rica, 1995, 1996, 1997, 1998

Cuba, 1996, 1999

Dominican Republic, 1997, 1999

Ecuador, 1999

El Salvador, 1997, 1999

Guatemala, 1998, 1999

Guyana, 1996

Honduras, 1998, 1999

Nicaragua, 1997

Paraguay, 1995, 1996

Peru, 1997

Trinidad and Tobago, 1999

Uruguay, 1999

Venezuela, 1995, 1996, 1997, 1998

### SUB-SAHARAN AFRICA

Angola, 1997, 1998, 1999

Benin, 1997, 1998

Botswana, 1997

Burkina Faso, 1997

Burundi, 1997

Cameroon, 1991, 1993, 1996, 1998

Cape Verde, 1998

Central African Republic, 1996

Chad, 1997

Comoros, 1997, 1998

Côte d'Ivoire, 1997

Equatorial Guinea, 1996

Ethiopia, 1997, 1998

Gambia, 1997

Ghana, 1997

Guinea, 1997

Guinea-Bissau, 1997

Kenya, 1999

Lesotho, 1998

Liberia, 1997

Madagascar, 1996

Malawi, 1997, 1998

Mali, 1995, 1997, 1998

Mauritania, 1996, 1997, 1998

Mozambique, 1998

Namibia, 1996, 1997

Niger, 1997, 1998

Nigeria, 1996, 1997

Sierra Leone, 1996

South Africa, 1998

Swaziland, 1997

Tanzania, U. Rep. of, 1997

Togo, 1995, 1997

Uganda, 1996, 1997

Zambia, 1997

Zimbabwe, 1998

REGIONAL REPORTS

Africa, 1995

Southern African Development

Community, 1998

Europe and the CIS, 1995, 1996

Pacific Islands, 1994, 1998 South Asia, 1997, 1998, 1999



# Human development in this age of globalization

Globalization, a dominant force in the 20th century's last decade, is shaping a new era of interaction among nations, economies and people. It is increasing the contacts between people across national boundaries—in economy, in technology, in culture and in governance. But it is also fragmenting production processes, labour markets, political entities and societies. So, while globalization has positive, innovative, dynamic aspects—it also has negative, disruptive, marginalizing aspects.

Today's interactions between nations and people are deeper than ever (figure 1.1).

- World exports, now \$7 trillion, averaged 21% of GDP in the 1990s, compared with 17% of a much smaller GDP in the 1970s.
- Foreign direct investment topped \$400 billion in 1997, seven times the level in real terms in the 1970s. Portfolio and other short-term capital flows grew substantially, and now total more than \$2 trillion in gross terms, almost three times those in the 1980s.
- The daily turnover in foreign exchange markets increased from around \$10–20 billion in the 1970s to \$1.5 trillion in 1998.
- Between 1983 and 1993 cross-border sales and purchases of US Treasury bonds increased from \$30 billion a year to \$500 billion.
- International bank lending grew from \$265 billion in 1975 to \$4.2 trillion in 1994.
- People travel more—with tourism more than doubling between 1980 and 1996, from 260 million to 590 million travellers a year.
- Despite the tight restrictions, international migration continues to grow. So have workers' remittances, reaching \$58 billion in 1996.
- Time spent on international telephone calls rocketed from 33 billion minutes in 1990 to 70 billion minutes in 1996 (figure 1.2).

 Travel, the Internet and the media have stimulated exponential growth in the exchange of ideas and information, and people today engage more than ever in associations that span national borders—from informal networks to formal organizations.

Driving this global integration are policy shifts to promote economic efficiency through the liberalization and deregulation of national markets and the retreat of the state from many economic activities, including a restructuring of the welfare state. Driving integration even faster are the recent innovations in information and communications technology. But global integration is still very partial—for one thing, the flow of labour is restricted, with borders closed to the unskilled.

The world today has more opportunities for people than 20, 50 or 100 years ago. Child death rates have fallen by half since 1965, and a child born today can expect to live a decade longer than a child born then. In developing countries the combined primary and secondary enrolment ratio has more than doubled—and the proportion of children in primary school has risen from less than half to more than three-quarters. Adult literacy rates have also risen, from 48% in 1970 to 72% in 1997. Most states are now independent, and more than 70% of the world's people live under fairly pluralist democratic regimes.

The world is more prosperous, with average per capita incomes having more than tripled as global GDP increased ninefold, from \$3 trillion to \$30 trillion, in the past 50 years. The share of people enjoying medium human development rose from 55% in 1975 to 66% in 1997, and the share in low human development fell from 20% to 10%.

But these trends mask great unevenness in the advances and in the new setbacks. While globalization has positive, innovative, dynamic aspects—it also has negative, disruptive, marginalizing aspects

### Global integration has progressed rapidly but unevenly

## Cross-border mergers and acquisitions

The growth in cross-border mergers and acquisitions (M&As) has become a striking trend and a major driver of FDI. In 1997 there were 58 transactions that exceeded \$1 billion each. Large M&As have been concentrated in financial services, insur-US\$ billions ance, life sciences, 236 telecommunications and the media. 200 150 Annual cross-borde mergers and acquisitions ..... 100 42% 59% of total FDI of total FDI

97

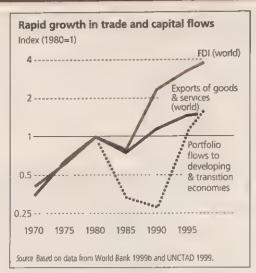
96

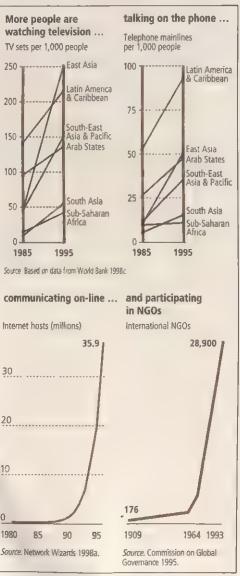
1992

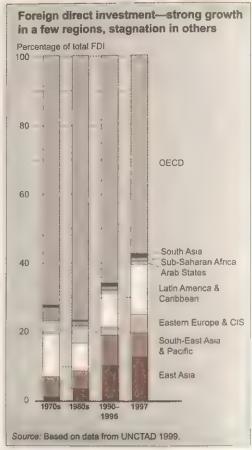
93

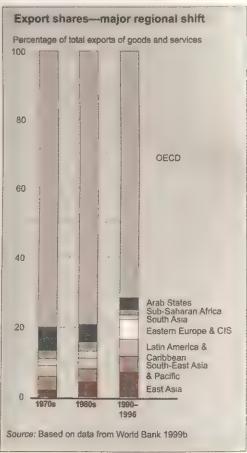
Source: UNCTAD 1998c

94 95

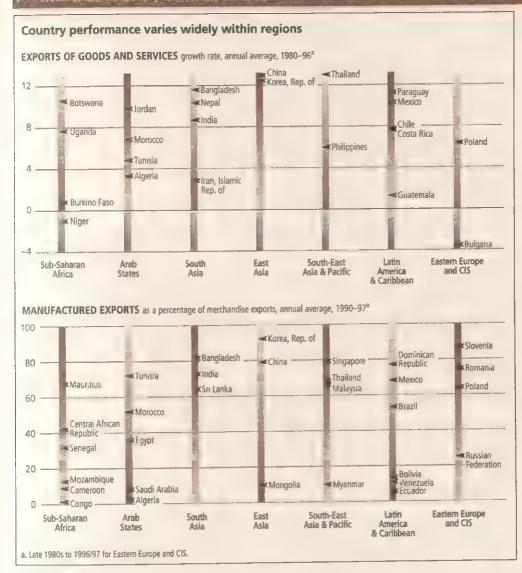








### with wide disparity between countries:



**Top 20 recipients** 

Workers' remittance	05	Foreign direct invest	tment	Portfolio and other flows		
1996, millions of current US\$		1997, millions of current		1997, millions of current US\$		
India Mexico Turkey Egypt Lebanon Morocco China Jordan Pakistan Bangladesh Brazil Yemen El Salvador Algeria Croatia Nigeria Dominican Republic Sri Lanka Indonesia	9,326 4,224 3,542 2,798 2,503 2,165 1,672 1,544 1,461 1,217 1,213 1,123 1,086 1,045 985 947 847 832 796	China Brazil Mexico Singapore Argentina Russian Federation Chile Indonesia Poland Venezuela Malaysia Thailand India Hong Kong, China (SAR) Colombia Korea, Rep. of Taiwan, province of China Hungary Peru	45,300 16,330 12,101 10,000 6,327 6,241 5,417 5,350 5,000 4,893 3,754 3,600 3,264 2,600 2,447 2,341 2,248 2,085 2,000	Brazil Mexico Thailand Argentina Indonesia China Malaysia Russian Federation Turkey Colombia India Czech Republic Philippines Chile Venezuela Peru Romania South Africa Pakistan	18,495 16,028 11,181 10,132 10,070 9,920 7,596 4,975 4,913 4,417 3,817 3,459 3,192 2,712 2,411 2,273 1,551 1,286 1,033	
Tunisia Totalling 88% of remitt	736 ances	Kazakhstan Totalling 85% of FDI	1,320	Slovenia Totalling 94% of flow		

#### How the benefits of integration are distributed Annual averages

INCOME GROWTH



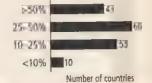
Number of countries

### **EXPORTS OF GOODS AND SERVICES** Growth rate, 1980-96



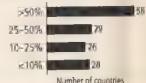
Number of countries

### As a percentage of GDP, 1990-97

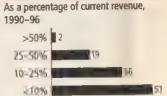


### MANUFACTURED EXPORTS

As a percentage of merchandise exports, 1990-97



Number of countries TAXES ON INTERNATIONAL TRADE



Number of countries

### **WORKERS' REMITTANCES** US\$ millions, 1990-96 >1,000 500-1,000 10 100-500 @180 Number of countries

Note: The number of countries varies from 108 to 172 depending on the database used.

Source: All figures based on data from World Bank 1999b and UNCTAD 1999.

Despite the tremendous progress in the 20th century, the world today faces huge backlogs of deprivation and inequality that leave huge disparities within countries and regions.

Proverty is everywhere Measured by the

Poverty is everywhere. Measured by the human poverty index (HPI-1), more than a quarter of the 4.5 billion people in developing countries still do not have some of life's most basic choices—survival beyond age 40, access to knowledge and minimum private and public services.

- Nearly 1.3 billion people do not have access to clean water.
- One in seven children of primary school age is out of school.
- About 840 million are malnourished.
- An estimated 1.3 billion people live on incomes of less than \$1 (1987 PPP\$) a day.

In industrial countries, too, human poverty and exclusion are hidden among statistics of success, revealing enormous disparities within countries. Measured by the human poverty index (HPI-2), one person in eight in the richest countries of the world is affected by some aspect of human poverty: long-term unemployment, a life shorter than 60 years, an income below the national poverty line or a lack of the literacy needed to cope in society.

The HPI disaggregated for a country's regions also shows wide disparities. In India, for example, the level of human poverty in the state of Bihar (54%) is more than twice that in Kerala.

Gender disparities remain large, too. In developing countries there are still 60% more illiterate women than illiterate men, and female enrolment at the primary level is still 6% lower than male enrolment. Disparities are starkest in the political and economic arena, with women nearly closed out of political life. In only five countries do they occupy more than 30% of parliamentary seats, and in 31 they occupy fewer than 5%. The gender empowerment measure and the gender development index show inequalities in every country (see indicator tables 2 and 3).

### THE WORLD HAS CHANGED

Over the past decade dramatic events have changed the global political order, brought technological progress and shifted economic policies—events defining the character of globalization and greatly accelerating it. The end of the cold war unleashed a wave of global political integration. Information and communications technology has launched millions of global conversations. And the Marrakesh Agreement of 1994 changed the rules of global trade. All this in the wake of a global ideological shift.

#### POLITICAL ORDER

The fall of the Berlin Wall in 1989 and the end of the cold war removed political and economic barriers—bringing more than 400 million people in Eastern Europe and the Commonwealth of Independent States (CIS) and almost 1.3 billion people in China and Viet Nam into the world of global contacts and communications. Ideas and information began to flow freely as countries lifted censorship, travel restrictions and prohibitions on political parties and civil society organizations. And foreign investment poured into China, Viet Nam, Poland and the Russian Federation—as did McDonald's, Hollywood movies and CNN real-time global news.

### TECHNOLOGICAL PROGRESS

The launching of the Internet's World Wide Web in 1990 followed by the free distribution of Netscape in 1994 turned an established but little-known technology for the scientific community into a user-friendly web for people. This not only brought far wider access at lower cost. It also brought a whole new structure of communication, allowing simultaneous transfers of information in words, numbers and images to points around the world. And it shrank the world of communications, making interaction possible at a distance in real time.

The average cost of processing information fell from \$75 per million operations to less than a hundredth of a cent in 1960–90. Airline operating costs per mile came down by half in 1960–90. The cost of a three-minute telephone call from New York to London fell from \$245 in 1930 (in 1990 prices) to under \$50 in 1960 to \$3 in 1990 to about 35 cents in 1999. These innovations in communications technology

FIGURE 1.2 International telephone calls Minutes per person per year, 1995



Source: UNESCO 1998b

Pakistan 1

transform the possibilities for building social solidarity and for mobilizing people across the globe in network societies.

### **ECONOMIC GOVERNANCE**

The Marrakesh Agreement—signed in April 1994, ending the Uruguay Round of the General Agreement on Tariffs and Trade (GATT)—reduced virtually all tariffs and other barriers. It also introduced a "rules based" system of global regulation in trade. And it broke ground in establishing the World Trade Organization (WTO) to enforce the agreement, with far-reaching authority to review country policies and settle disputes.

Multilateral agreements extend to new areas—services such as banking and insurance, and intellectual property rights. Unprecedented in scope and commitment, these multilateral agreements bind national governments in their domestic policy choices, driving a convergence of policy in a world of enormously diverse conditions.

### A GLOBAL IDEOLOGICAL SHIFT

National and international economic policies shifted sharply in the 1970s and 1980s towards more reliance on the market-diminishing the role of the state. Ever-growing numbers of developing countries adopted an open trade approach, shifting away from import substitution policies. By 1997 India had reduced its tariffs from an average of 82% in 1990 to 30%, Brazil from 25% in 1991 to 12%, and China from 43% in 1992 to 18%. Driven by technocrats, the changes were strongly supported by International Monetary Fund (IMF) and World Bank financing as part of comprehensive economic reform and liberalization packages. Conditions of membership in the WTO and the Organisation for Economic Co-operation and Development (OECD) were important incentives.

Country after country undertook deep unilateral liberalization, not just in trade but in foreign direct investment. In 1991, for example, 35 countries introduced changes in 82 regulatory regimes, in 80 of them moving to liberalize or promote foreign direct investment. In 1995 the pace accelerated, with even

more countries—65—changing regimes, most continuing the trend of liberalization.

After the breakdown of the Bretton Woods system of fixed exchange rates in 1971, OECD countries abolished most restrictions on capital flows, and today capital of all kinds moves among them virtually without restriction. The deregulation of financial markets has been slower in developing countries but is progressing nonetheless, with encouragement from the IMF and OECD. Argentina, Mexico and Thailand opened their capital markets. India liberalized trade radically but not its capital markets. China discouraged short-term capital flows. And Chile followed the unique route of reducing excessive short-term volatility of flows by introducing a deposit tax.

Countries of Eastern Europe and the CIS began the dramatic transition from centrally planned economic systems to market democracies. China, Mongolia and Viet Nam also began to liberalize their economies and dramatically reshape their trading relationships, opening their economies to trade and foreign direct investment.

These changes sped the pace of globalization and deepened the interactions among people. They have also defined the character of global integration, giving rise to new markets, new actors, new rules and new tools (box 1.1). And they have created an era of globalization that is intensifying contacts—not just between countries but between people.

The landscape is changing in three distinct ways:

- Shrinking space. People's lives—their jobs, incomes and health—are affected by events on the other side of the globe, often by events they do not know about.
- Shrinking time. Markets and technologies now change with unprecedented speed, with action at a distance in real time, with impacts on people's lives far away. An example is the rapid reversal of capital flows to the East Asian markets and its contagion from Thailand to Indonesia to Korea—and also to faraway South Africa.
- Disappearing borders. National borders are breaking down, not only for trade, capital and information but also for ideas, norms, cultures and values. Borders are also breaking down in economic policy—as multilateral

Unprecedented in scope
and commitment, these
multilateral agreements
bind national
governments in their
domestic policy choices,
driving a convergence of
policy in a world of
enormously diverse
conditions

80X 1.1

### Globalization—what's really new?

Some argue that globalization is not new, and that the world was more integrated a century ago. Trade and investment as a proportion of GDP were comparable, and with borders open, many people were migrating abroad. What's new this time?

### New markets

- Growing global markets in services banking, insurance, transport.
- New financial markets—deregulated, globally linked, working around the clock, with action at a distance in real time, with new instruments such as derivatives.
- Deregulation of antitrust laws and proliferation of mergers and acquisitions.
- Global consumer markets with global brands.

#### New actors

- Multinational corporations integrating their production and marketing, dominating world production.
- The World Trade Organization—the first multilateral organization with authority to enforce national governments' compliance with rules.
- An international criminal court system in the making.
- A booming international network of NGOs.
- Regional blocs proliferating and gaining importance—European Union, Association of South-East Asian Nations, Mercosur, North American Free Trade Association, Southern African Development Community, among many others.

• More policy coordination groups—G-7, G-10, G-22, G-77, OECD.

#### New rules and norms

- Market economic policies spreading around the world, with greater privatization and liberalization than in earlier decades.
- Widespread adoption of democracy as the choice of political regime.
- Human rights conventions and instruments building up in both coverage and number of signatories—and growing awareness among people around the world.
- Consensus goals and action agenda for development.
- Conventions and agreements on the global environment—biodiversity, ozone layer, disposal of hazardous wastes, desertification, climate change.
- Multilateral agreements in trade, taking on such new agendas as environmental and social conditions.
- New multilateral agreements—for services, intellectual property, communications—more binding on national governments than any previous agreements.
- The Multilateral Agreement on Investment under debate.

## New (faster and cheaper) tools of communication

- Internet and electronic communications linking many people simultaneously.
- Cellular phones.
- Fax machines.
- Faster and cheaper transport by air, rail and road (box table 1.1).
- Computer-aided design.

agreements and the pressures of staying competitive in global markets constrain the options for national policy, and as multinational corporations and global crime syndicates integrate their operations globally.

What does all this mean for human development? People's lives around the globe are linked more deeply, more intensely, more immediately than ever before. This opens many opportunities, giving new power to good and bad, to global women's movements as well as to global crime syndicates. But it also exposes people to risks from changes far away. National governments cannot cope with these vulnerabilities and risks on their own—because their autonomy is weakening, and because "global bads" such as drugs and illegal arms travel the world with ease.

## GLOBAL INTEGRATION— RAPID BUT UNBALANCED

Global integration is proceeding at breakneck speed and with amazing reach. But the process is uneven and unbalanced, with uneven participation of countries and people in the expanding opportunities of globalization—in the global economy, in global technology, in the global spread of cultures and in global governance. The new rules of globalization—and the players writing them—focus on integrating global markets, neglecting the needs of people that markets cannot meet. The process is concentrating power and marginalizing the poor, both countries and people (box 1.2).

### GLOBAL ECONOMY

The steady expansion of exports and the phenomenal growth of capital flows mask enormous disparities in experience across countries and regions.

- World exports of goods and services almost tripled between the 1970s and 1997 in real terms. Botswana, China, the Dominican Republic and the Republic of Korea enjoyed 10–13% average annual growth in their exports. But many countries did not share in the benefits, with exports declining in Bulgaria, Niger, Togo and Zambia.
- Since the 1970s the share of manufactures in merchandise exports has grown considerably

## BOX TABLE 1.1 Declining cost of transport and communications (1990 US\$)

Year	Sea freight (average ocean freight and port charges per ton)	Air transport (average revenue per passenger mile)	Telephone call (3 minutes, NY/London)	Computers (index, 1990 = 100)
1920	95	_		_
1930	60	0.68	245	_
1940	63	0.46	189	~
1950	34	0.30	53	
1960	27	0.24	46	12,500
1970	27	0.16	32	1,947
1980	24	0.10	5	362
1990	29	0.11	3	100

Source-IMF 1997a.

for some countries—from 13% to 71% in Mautitius, 32% to 81% in Mexico, 25% to 78% in Tunisia. But for 28 countries manufactures still make up less than 10% of merchandise exports.

- In 1997 foreign direct investment zoomed to \$400 billion, seven times the level of the 1970s, but 58% of it went to industrial countries, 37% to developing countries and just 5% to the transition economies of Eastern Europe and the CIS (see figure 1.1).
- More than 80% of the foreign direct investment in developing and transition economies in the 1990s has gone to just 20 countries, mainly China. For 100 countries foreign direct investment has averaged less than \$100 million a year since 1990, and for nine countries net flows have been negative.
- Some 94% of the portfolio and other shortterm capital flows to developing and transition economies went to just 20 of them in 1996, the year before the East Asian crisis (see figure 1.1). Today only 25 developing countries have access to private markets for bonds, commercial bank loans and portfolio equity. The rest are shut out by their lack of credit rating.

To sum up: the top fifth of the world's people in the richest countries enjoy 82% of the expanding export trade and 68% of foreign direct investment—the bottom fifth, barely more than 1%.

These trends reinforce economic stagnation and low human development. And they have further marginalized many developing countries from the most dynamic areas of global economic growth. The 1980s and 1990s have seen strong growth in the trade of manufactures, services and "knowledge goods". While some developing countries have made major advances, others have missed out entirely. Manufacturing exports should have been a step towards transforming their economies and creating more jobs. But only 33 countries managed to sustain 3% annual growth in GNP per capita during 1980-96. For 59 countries-mainly in Sub-Saharan Africa and Eastern Europe and the CIS-GNP per capita declined.

Economic integration is thus dividing developing and transition economies into those that are benefiting from global opportunities and those that are not. The uneven divide cuts across levels of income and human development—and across regions. Contrast China, Chile, Costa Rica, Mauritius and Poland with Cameroon, Niger, Venezuela and Russia.

Ironically, those left behind are deeply integrated in world trade. Sub-Saharan Africa has a higher export-to-GDP ratio (29% in the 1990s) than Latin America (15%). But Africa's exports are still mainly in primary commodities, and foreign direct investment is concentrated in mineral extraction—so the region's apparent integration is actually a vulnerability to the whims of the primary commodity markets.

Countries are not the only major actors—more and more it is multinational corporations that dominate global markets. Their foreign affiliates accounted for an estimated \$9.5 trillion in sales in 1997. Their value added was 7% of world GDP in 1997, up from 5% in the mid-1980s. Their share of world exports increased as well, from a quarter in the late 1980s to a third in 1995. US-based multinationals account for more than a quarter of US GDP—\$2 trillion

### BOX 1.2 Shrinking time, shrinking space, disappearing borders—but for whom?

Have time, space and borders collapsed into a global village? It depends on who you are.

Financial dealers are at the pinnacle of connections. Instant communications, free flows of capital and constant updates from around the world enable money markets from London to Jakarta, from Tokyo to New York, to act as a unit in real time.

Multinational corporations, too, are roaming global markets and integrating production. Cross-border mergers and acquisitions (majority foreign-owned) accounted for 59% of total foreign direct investment in 1997.

Tourists travel more outside their countries but more than half are travelling from highincome countries.

NGOs on-line can campaign around the world, with their messages travelling across borders in seconds. Through email and media networks, people are giving their support to associations across borders—from informal networks to formal organizations.

Source: Human Development Report Office.

High-skilled labour also travels the global village. With Internet access in nearly every country, the highly educated are increasingly on-line and in touch around the world. In 1998 more than 250,000 African professionals were working in the United States and Europe. Immigrants with skills in computing technologies are in high demand—in the European Union alone, 500,000 information technology jobs go unfilled because of lack of national skills. The United States offers a special visa to professional immigrants to keep high-tech industries staffed.

Unskilled labour, by contrast, runs up against hurdles. Many families are divided across international borders as a result of the increasingly tight restrictions in the rich countries on immigration of unskilled labour. Millions of people do not even have passports—difficult to get in some countries—let alone the visas required to travel abroad.

The collapse of space, time and borders may be creating a global village, but not everyone can be a citizen. The global, professional elite faces low borders, but billions of others find borders as high as ever. of \$7.3 trillion. And the large multinationals are becoming even larger as takeovers and mergers proliferate.

Capital is becoming even more concentrated globally as megacorporations merge, often across borders—Chrysler and Daimler, Hoechst and Rhone-Poulenc, Exxon and Mobil. From 1990 to 1997 the annual number of mergers and acquisitions more than doubled, from 11,300 to 24,600. Cross-border mergers and acquisitions accounted for \$236 billion in 1997. Multinational corporations now dwarf some governments in economic power (table 1.1).

Generating employment? Conventional economic theory predicts that trade liberalization will increase productivity and wages, especially for tradable goods, thus expanding jobs and opportunities for poor people. Sometimes the theory has been right. In the 1980s and 1990s great progress in reducing global poverty and advancing human development was propelled by many countries seizing global opportunities.

- China, Indonesia, the Republic of Korea, Malaysia and many others achieved rapid economic growth, and linked that growth to advancing human development and reducing poverty.
- Many countries generated good employment opportunities by tapping into global markets—take software programming in Bangalore, India, computer assembly in Costa Rica, high-tech services in Ireland.
- Others used foreign direct investment to improve the quality of employment. Foreignowned companies in Hungary accounted for more than 80% of manufacturing investment in 1996, a third of employment and three-quarters of export earnings.

But expansion of trade does not always mean more employment and better wages. In the OECD countries employment creation has lagged behind GDP growth and the expansion of trade and investment. Despite 2–3% growth in per capita GDP over the past two decades, unemployment did not decline, staying at around 7%, with a higher rate in the European Union (10–11%) and lower rates in Japan, Norway and the United States (table 1.2). More than 35 million people are unemployed, and another

10 million have given up looking for a job. Among the youth, one in five is unemployed.

People are facing job losses alongside job creation in many countries—from corporate restructuring, mergers and acquisitions, the spread of globally integrated production by multinational corporations and, in the OECD countries, shifts to knowledge-based sectors.

A common perception in the OECD countries is that jobs are being exported to the South. OECD imports of manufactures from developing countries have certainly increased since 1970, but such imports were just 2% of the combined GDP of the OECD countries in 1996. So, it is not surprising that trade and immigration contributed only about a tenth of the increase in wage dispersion in the United States in the early 1980s. Moreover, North-South trade has mainly raised wages for skilled labour in OECD countries through exports, not depressed wages for unskilled labour. So, "dislocation" of jobs to the South does not appear to be the main source of job stress in the North.

Expanding opportunities—migration. Migration in today's globalizing world is also marked by uneven human opportunities and uneven human impacts. An estimated 130–145 million people live outside their countries, up from 104 million in 1985 and 84 million in 1975. These estimates include only legally registered immigrants, so the real number is much higher. For many countries workers' remittances are a major source of foreign exchange, sometimes the primary source (see figure 1.1).

Three points about migration. First, global employment opportunities may be opening for some, but they are closing for most others. The global market for high-skilled labour is now more integrated, with high mobility and standardized wages. But the market for unskilled labour is highly restricted by national barriers, even though it accounts for a larger share of international migration. Australia, Canada and the United States have programmes to attract skilled migrants, so the brain drain from developing countries continues. As many as 30,000 African PhDs live abroad, while the continent is left with only one scientist and engineer per 10,000 people.

TABLE 1.1

Top corporations had sales totalling more than the GDP of many countries in 1997

Country or	GDP or total sale
corporation	(US\$ billions)
General Motors	464
	164
Thailand	154
Norway	153
Ford Motor	147
Mitsui & Co.	145
Saudi Arabia	140
Mitsubishi	140
Poland	136
itochu	136
South Africa	129
Royal Dutch/Shell	Group 128
Marubeni	124
Greece	123
Sumitomo	119
Exxon	117
Toyota Motor	109
Wal Mart Stores	105
Malaysia	98
Israel	98
Colombia	96
Venezuela	87
Philippines	82

Source: Forbes Magazine 1998.

TABLE 1.2

Unemployment rate in selected OECD countries

(percentage of the labour force)

Country or group	Average 1985–95	1997	1999 *
Iceland	2.3	3.9	2.7
Japan	2.5	3.4	4.6
Norway	4.3	4.1	3.7
United States	6.3	4.9	5.0
Belgium	11.1	12.7	11.5
Spain	19.5	20.8	17.8
European Unio	n 9.9	11.2	10.3
OECD	7.1	7.2	7.3

a. Projections.

Source: OECD 1998a and 1998b.

Second, undocumented migration contin-Hes unabated. The United States alone has an estimated 4 million undocumented immigrants. European countries estimate that half their immigrants are undocumented, up from a quarter in the mid-1980s. Developing countries also host large numbers of undocumented immigrants-3 million in Côte d'Ivoire in 1988, 1 million in Thailand and 700,000 in Malaysia in 1997, 1 million in Gabon in 1993, 1 million in Argentina in 1996. Lacking papers, illegal immigrants face not only discrimination but also denial of human rights. They often have to accept wages and conditions that do not meet minimum labour standards. And they often have to pay traffickers—as much as \$35,000 from China to the United States. Trafficking is a booming business, moving 4 million people a year, generating \$7 billion.

Third, there is a gender face to much migration. At least 50 million migrants are women, 30 million in developing countries. A large share of migrants from the Philippines, Sri Lanka and elsewhere are women. Many end up in activities that are dirty, dangerous and demeaning.

### GLOBAL CULTURE

Contacts between people and their cultures—their ideas, their values, their ways of life—have been growing and deepening in unprecedented ways. Television now reaches families everywhere. For many, the exposure to new cultures is exciting, even empowering. For others, it is disquieting, as they try to cope with a rapidly changing world.

As Mahatma Gandhi expressed so eloquently earlier in the century, "I do not want my house to be walled in on all sides and my windows to be stuffed. I want the cultures of all the lands to be blown about my house as freely as possible. But I refuse to be blown off my feet by any." Today's flow of culture and cultural products is heavily weighted in one direction—from rich countries to poor.

The rise of culture as an economic good has added to the identification of culture with commodities that can be sold and traded—crafts, tourism, music, books, films. Although the spread of ideas and images enriches the world, there is a risk of reducing cultural concerns to

protecting what can be bought and sold, neglecting community, custom and tradition.

Culture has become important economically. A UNESCO study shows that world trade in goods with cultural content—printed matter, literature, music, visual arts, cinema and photographic, radio and television equipment—almost tripled between 1980 and 1991, from \$67 billion to \$200 billion. It continues to grow. For the United States the largest single export industry is not aircraft, computers or automobiles—it is entertainment, in films and television programmes. Hollywood films grossed more than \$30 billion worldwide in 1997, and in 1998 a single movie, *Titanic*, grossed more than \$1.8 billion.

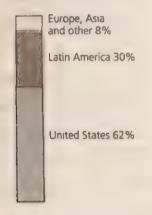
The vehicles for this trade in cultural goods are the new technologies. Satellite communications technology from the mid-1980s gave rise to a powerful new medium with a global reach and to such global media networks as CNN. The number of television sets per 1,000 people worldwide almost doubled between 1980 and 1995, from 121 to 235. The 1990s have seen a boom in multimedia industries, with sales of the world's largest 50 multimedia companies reaching \$110 billion in 1993. The development of the Internet is also spreading culture around the world, over an expanded telecommunications infrastructure of fiber optics and parabolic antennas.

But the global market for cultural products is becoming concentrated, driving out small and local industries. At the core of the entertainment industry—film, music and television—there is a growing dominance of US products, and many countries are seeing their local industries wither (figures 1.3 and 1.4). Although India makes the most films each year, Hollywood reaches every market, getting more than 50% of its revenues from overseas, up from just 30% in 1980. It claimed 70% of the film market in Europe in 1996, up from 56% in 1987—and 83% in Latin America and 50% in Japan. By contrast, foreign films rarely make it big in the United States, taking less than 3% of the market there.

Once-thriving film industries around the world declined in the 1970s and 1980s, a result of the rise of television. Mexico once produced more than 100 films a year, but despite a resurgence of cinema attendance, local production

For the United States the largest single export industry is not aircraft, computers or automobiles—it is entertainment, in films and television programmes

FIGURE 1.3
Less than a third of television programming in Latin America originates in the region
Percentage of total programming by onein



Source. UNESCO 1998b.

FIGURE 1.4

Domestic film industries

struggle to hold market share

Domestic share of film distribution,
1990–93 (percent)

India

India

United States

United States

Philippines

Iran, Islamic Rep. of

Japan

France

Italy, Russian Federation

Egypt

Canada, Malaysia

Source UNESCO 1998b.

had dropped to less than 40 films by 1995, and to less than 10 by 1998. Hollywood has captured the resurgence of attendance since the mid-1990s, leaving domestic industries to struggle.

Faced with such threats, many countries argue that cultural goods should be exempt from free trade agreements. The Uruguay Round acknowledged the special nature of cultural goods, granting some exemptions. The North American Free Trade Agreement (NAFTA) required substantial negotiations before limited exemptions or exclusions of cultural industries were adopted. The issue was reopened in the negotiations for the Multilateral Agreement on Investments, polarizing countries that see cultural goods as an economic good or service like any other (Germany, Japan, the United Kingdom, the United States) and countries that see cultural goods as having intrinsic value to be protected for artistic diversity and national identity (Canada, France).

People are concerned about the spread of "global consumer culture" and cultural homogenization. Global producers market global products—brands like Nike and Sony that symbolize the life styles that people aspire to. But there are countervailing trends. Culture does not always flow in one direction. Salsa music from the Caribbean, the cuisines of Ethiopia and Thailand and many other traditions are spreading globally, and more nations are becoming multiethnic. Local cultures have also taken on renewed vigour and significance as political movements promote local culture and local identity. In the post-cold war world local culture has often replaced ideology in politics, as the rise of fundamentalist movements reflects.

The debate among anthropologists on whether there is cultural homogenization remains open. There are no surveys showing that people are becoming alike. And while some argue that globalization is an ideological process imposing a global culture, others argue that while cultural products flow around the world, people receive and use them differently.

#### GLOBAL GOVERNANCE

Governance is not government—it is the framework of rules, institutions and practices

that set limits on the behaviour of individuals, organizations and companies. In today's integrating world there is clear need for global governance for the good of society, economy and environment. And a form of global governance is indeed emerging—but the imbalances in the process are cause for concern.

Intergovernmental policy-making in today's global economy is in the hands of the major industrial powers and the international institutions they control—the World Bank, the International Monetary Fund, the Bank for International Settlements. Their rule-making may create a secure environment for open markets, but there are no countervailing rules to protect human rights and promote human development. And developing countries, with about 80% of the world's people but less than a fifth of global GDP, have little influence.

Ad hoc and self-selected policy groups have emerged in the past decade to make de facto global economic policy, outside the United Nations or any other formal system with democratic processes and participation. The finance ministers of the major industrial countries are in daily telephone contact—and their staff in email contact-shaping the annual G-7 meetings to discuss global economic and political issues. The United States took the initiative in 1998 to form the G-22-from the G-7 and 15 others. including the largest emerging economies—to review the global financial system in the wake of the East Asian crisis. The G-10 central bankers still guide the supervision of banking systems. All these groups play a key part in international economic policy-making, yet only the G-22 has any consultation with developing countries, and then only with a select few.

Poor countries participate little in the formulation and implementation of the new rules that govern global markets. The 1994 Uruguay Round of GATT shows the difficulties facing small and poor countries. Of the 29 least developed countries in the WTO, only 12 had missions in Geneva, most staffed with a handful of people to cover the gamut of UN work. Few African countries had delegations supported by staff or in-depth analysis to defend their national interests, weaknesses that carry through all negotiating and dispute settlement procedures. Many small and poor countries

had difficulty even ensuring representation at meetings. And although the WTO is representative in its voting structure, its procedures, which rely on consensus for decision-making and on committees with selected membership, leave much scope for the delegations with more resources to influence outcomes. Indeed, the 1996 ministerial meeting in Singapore agreed on the need to review these procedures.

Compounding these weaknesses in negotiating capacity is the breakup of the common "South" position on global trade issues in the 1990s—and the pursuit of diverging interests. The different situations of developing countries—from the newly industrializing to the least developed—only deepen the schisms.

The rapidly increasing multilateral agreements—the new rules—are highly binding on national governments and constrain domestic policy choices, including those critical for human development. They drive a convergence of policies in a world of enormous diversity in conditions—economic, social, ecological. For example, most developing counexempted agriculture. previously medicines and other products from national patent laws, but with the passage of the agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), almost all knowledge-based production is now subject to tight intellectual property protection, unified internationally. Further, the TRIPS agreement is unbalanced: it provides an enabling environment for multinationals, tightening their dominant ownership of technology, impeding and increasing the cost of transfer to developing countries.

These new rules and institutions advance global markets. But there has been much less progress in strengthening rules and institutions to promote universal ethics and norms—especially human rights to promote human development and to empower poor people and poor countries. Fortunately, two important forces of social governance are gaining strength.

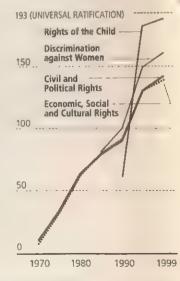
Institutions of human rights. Helped by the end of the cold war and the global communications network, awareness is growing of the violations of human rights and the possibilities for democratic governance. The international legal framework for human rights is a great achievement, starting with the Universal Declaration of Human Rights in 1948. And since the 1980s the system has been gaining ground. A high commissioner for human rights was appointed, and it was agreed to establish an international criminal court. And the Convention on the Rights of the Child has achieved nearly universal ratification in just a decade, while earlier conventions have yet to be universally ratified after three decades (figure 1.5).

But the lack of mechanisms for enforcement is glaring. The human rights regime holds only national governments accountable—not individuals, corporations or institutions. The 1998 agreement to create an international criminal court, with 120 countries in favour and only 7 against, was a landmark, bringing a forum for enforcement of international justice. But it applies only to war crimes, crimes against humanity and genocide.

Ironically, more attention has gone to enforcing labour and environmental standards in expanding free trade, using strong trade sanctions to punish countries that violate them. The Multilateral Agreement on Investment was being developed in the OECD to provide a predictable market for multinationals, protecting their rights. But no consideration went to their responsibilities to people—their responsibilities to limit their behaviour, to bind their obligation to respect human rights and to promote the development interests of the communities they touch.

Global NGO networks. One big development in opening opportunities for people to participate in global governance has been the growing strength and influence of NGOs-in both the North and the South. NGOs have been effective advocates for human development, maintaining pressure on national governments, international agencies and corporations to live up to commitments and to protect human rights and environmental standards. Their campaigns have reversed policy—as with their opposition to the Multilateral Agreement on Investment. When developing country governments have found it difficult to stay unified in negotiations, the NGOs have often come forward with alternative approaches. Some NGOs NGOs have been effective advocates for human development, maintaining pressure on national governments, international agencies and corporations to live up to commitments and to protect human rights and environmental standards

FIGURE 1.5
Uneven ratification of human rights conventions
Total countries ratifying



now have more members than some countries have citizens. A recent study estimates that the non-profit organizations in just 22 countries are a \$1.1 trillion sector, employing 19 million people (see figure 1.1).

SOCIAL FRAGMENTATION— REVERSALS IN PROGRESS AND THREATS TO HUMAN SECURITY

Uneven globalization is bringing not only integration but also fragmentation—dividing communities, nations and regions into those that are integrated and those that are excluded.

Social tensions and conflicts are ignited when there are extremes of inequality between the marginal and the powerful. Indonesia shows what can happen when an economic crisis sets off latent social tensions between ethnic groups—or between the rich and poor.

BOX 1 3

### The concept of human security

Human Development Report 1994 presented the concept of human security. Human development is a broader concept a process of widening the range of people's choices. Human security means that people can exercise these choices safely and freely—and that they can be fairly confident that the opportunities they have today will not be lost tomorrow. With advancing globalization, new issues of global security have since emerged, but the conceptual framework from 1994 is still relevant for analysing today's global issues.

Human security has two main aspects

- Safety from such chronic threats as hunger, disease and repression.
- Protection from sudden and hurtful disruptions in the patterns of daily life whether in homes, in jobs or in communities. Such threats exist at all levels of national income and development.

Threats to human security

The loss of human security can be a slow, silent process—or an abrupt, loud emergency. Humans can be at fault—with bad policy choices. So can the forces of nature. Or it can be a combination of the two—when environmental degradation leads to a natural disaster, followed by human tragedy.

The many threats to human security, diftering for individuals at different times, fall into seven main categories.

- · Economic insecurity
- Food insecurity
- · Health insecurity
- · Personal insecurity
- · Environmental insecurity
- Community and cultural insecurity.
- · Political insecurity

Threats to global security

When human security is under threat any where, it can affect people everywhere Famines ethnic conflicts, social disintegration, terrorism, pollution and drug trafficking can no longer be confined within national borders. Some global challenges to human security arise because threats within countries rapidly spill beyond national frontiers such as greenhouse gases and trade in drugs. Other threats take on a global character because of the disparities between countries disparities that encourage millions of people to leave their homes in search of a better lite, whether the receiving country wants them or not. And frustrations over inequality—in incomes and in political power-often build up into serious civil conflicts between groups, whether ethnic, religious or social.

Recent research on complex humanitarian emergencies concluded that "horizontal inequalities" between groups—whether ethnic, religious or social—are the major cause of the current wave of civil conflicts. Inequalities—and insecurities—matter not only in incomes but in political participation (in parliaments, cabinets, armies and local governments), in economic assets (in land, human capital and communal resources) and in social conditions (in education, housing and employment).

The shrinking of time and space is creating new threats to human security. The fast-changing world presents many risks of sudden disruptions in the patterns of daily life—in jobs and livelihoods, in health and personal safety, in the social and cultural cohesion of communities (box 1.3). Threats to human security can now speed their way around the world—the collapse of financial markets, HIV/AIDS, global warming, global crime. Global threats are increasing, outgrowing national abilities to tackle them, and outpacing international responses.

### WIDENING DISPARITIES IN INCOME

Gaps in income between the poorest and richest people and countries have continued to widen. In 1960 the 20% of the world's people in the richest countries had 30 times the income of the poorest 20%—in 1997, 74 times as much. This continues the trend of nearly two centuries (figure 1.6).

Gaps are widening both between and within countries. In East Asia per capita incomes today are more than seven times what they were in 1960, three times what they were in 1980. But in Sub-Saharan African and other least developed countries, per capita incomes today are lower than they were in 1970. The transition economies of Eastern Europe and the CIS have experienced the fastest rise in inequality ever. Russia now has the greatest inequality-the income share of the richest 20% is 11 times that of the poorest 20%. Income inequalities also grew markedly in China, Indonesia, Thailand and other East and South-East Asian countries that had achieved high growth while improving income distribution and reducing poverty in earlier decades.

Source UNDP 1994.

Recent studies show inequality rising in most OECD countries during the 1980s and into the early 1990s. Of 19 countries, only one showed a slight improvement. The deterioration was worst in Sweden, the United Kingdom and the United States. In the United Kingdom the number of families below the poverty line rose by 60% in the 1980s, in the Netherlands, by nearly 40%. And in Australia, Canada, the United Kingdom and the United States at least half the single-parent households with children have incomes below the poverty line. Contrast that with the staggering concentration of wealth among the ultra-rich. The net worth of the world's 200 richest people increased from \$440 billion to more than \$1 trillion in just the four years from 1994 to 1998. The assets of the three richest people were more than the combined GNP of the 48 least developed countries.

### JOB AND INCOME INSECURITY

In both poor countries and rich, dislocations from economic and corporate restructuring and dismantled social protection have meant heavy job losses and worsening employment conditions. Jobs and incomes have become more precarious. The pressures of global competition have led countries and employers to adopt more flexible labour policies, and work arrangements with no long-term commitment between employer and employee are on the rise.

In Latin America, for example, reforms in labour laws increased labour market flexibility, and more flexible contracts were introduced. By 1996 the share of workers without contracts or with new kinds of contracts increased to 30% in Chile, 36% in Argentina, 39% in Colombia and 41% in Peru. In Egypt an increasingly common practice is to require new recruits to sign a resignation letter before taking the job. Belgium, France, Germany and the United Kingdom all weakened their worker dismissal laws. And the Netherlands, Spain and the United Kingdom decentralized wage bargaining.

With ever-changing technology, people need ever-changing skills—yet even in the richest countries many lack the basics. Despite universal primary and secondary education in OECD countries, one person in six is functionally illiterate—unable to fill out a job application, excluded from the rapidly changing world that demands new skills in processing information. With unemployment a luxury few can afford, people who cannot get formal employment end up in the informal sector. In Latin America in the 1990s, informal employment has expanded from 52% to 58%, and 85 of every 100 jobs created are informal.

As multinationals merge, corporate restructuring means job losses (box 1.4). Though the loss of corporate jobs may be compensated by employment creation elsewhere, it adds to the insecurity of people in their jobs and lives.

BUST AND BOOM ECONOMIES— FINANCIAL VOLATILITY

The financial crisis in East Asia destabilized the lives of millions and reduced the prospects for growth in that region and in the world. In Indonesia, the Republic of Korea, Malaysia, the Philippines and Thailand human costs were

### Merry Christmas—and have a Happy New Year elsewhere

With mergers and acquisitions come corporate restructuring, downsizing and layotts. It is impossible to say whether the downsizing following a merger would have been avoided if the two corporations had not merged, but it is clear that the layoffs disrupt the lives of many. Reports in the New York Times and the Financial Times in one month, from 7 December 1998 to 4 January 1999, tell part of the relentless story of corporate layoffs.

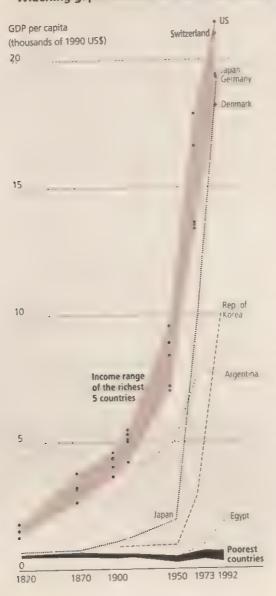
- NYT, 7 December 1998. "Deutsche Telekom plans to eliminate 20,000 jobs by the year 2000 and will seek partners for possible mergers. . . . The job reductions are part of Deutsche Telekom's effort to cut costs to help offset lower prices, as the company, a former monopoly, winds up its first year in a more competitive market."
- FT, 8 December 1998. "Last week's announcements that Exxon was to buy Mobil (with job losses projected at 9,000) and that Deutsche Bank planned to acquire Bankers Trust (5,500 jobs to go) both came in industries that are becoming

accustomed to consolidation through merger. In Exxon's case, the announced job losses represent only those that will be lost in the immediate aftermath of the merger many thousands more are likely to be cut later as the merged company sheds unprofitable retineries, oil wells and service stations."

- NYT, 16 December 1998, "Citigroup, one of the country's largest financial services companies, said yesterday that it planned to climinate about 10,400 jobs, or about 6 percent of its workforce. . . Citigroup said 65 percent, or about 6,760, of the cuts would be overseas. The rest, about 3,640 positions, will be in the US."
- NYT, 4 January 1999. "The largest private oil company, the Royal Dutch/Shell Group, said last month that it would...cut some of its 105,000 employees.... In addition, thousands of jobs will be cut by Texaco, Conoco, Shell and Chevron. British Petroleum and Amoco, whose merger was approved on Wednesday by the FTC, plan to shed 6,000 jobs."

Source: New York Times 1998a, 1998b and 1999b; Financial Times 1998b

### Widening gaps between rich and poor since the early 19th century



World inequalities have been rising steadily for nearly two centuries. An analysis of long-term trends in world income distribution (between countries) shows that the distance between the richest and poorest country was about 3 to 1 in 1820, 11 to 1 in 1913, 35 to 1 in 1950, 44 to 1 in 1973 and 72 to 1 in 1992. More amazing is that the British in 1820 had an income about six times that of the Ethiopians in 1992!

These trends mask the fact that many countries have caught up with the most advanced. Japan, for example, had scarcely 20% of US income in 1950, 90% in 1992. Southern Europe has seen a similar trend—with 26% of US income in 1950 and 53% in 1992. Some Arab states have also seen big increases in income.

### Richest and poorest countries, 1820–1992 GDP per capita (1990 US\$)

US 21,558 Switzerland 21,036
Japan 19,425 Germany 19,351 Denmark 18,293
Myanmar 748 Bangladesh 720 Tanzania, U. Rep. of 601 Congo, Dem. Rep. of the 353

### The world's 200 richest people are getting richer—fast



## They are global, citizens of both rich and poor countries:

North America 65
Europe 55
Other industrial countries 13
Eastern Europe & CIS 3
Asia & the Pacific 30
Arab States 16
Latin America & Caribbean 17
Sub-Saharan Africa 1

### They could do a lot for world poverty:

The assets of the 3 richest people are more than the combined GNP of all least developed countries.

The assets of the 200 richest people are more than the combined income of 41% of the world's people.

A yearly contribution of 1% of the wealth of the 200 richest people could provide universal access to primary education for all (\$7–8 billion).

Source Based on data from Forbes Magazine
1998

## Worsening inequality in OECD countries during the 1980s

### **Earnings inequality**

- Almost all countries had an increase in wage inequality during the 1980s except Germany and Italy.
- Earnings inequality increased most in the UK and the US, and least in the Nordic countries.
- The increasing demand for skilled workers coupled with differences across countries in the growth of supply of skilled workers explain a large part of differences in earnings inequality.
- At any given time there are large earnings inequalities between men and women.

### Disposable income inequality

- Increases in household income inequality were lower than those in earnings inequality in most nations, since disposable income (after taxes and transfers) is better distributed than market income.
- Still, income inequality increased in most OECD countries in the 1980s and early 1990s.
- Trends in inequality were not closely associated with levels. Some nations with low inequality experienced some of the largest increases.
- Reductions in social welfare spending and regressive changes in income taxes account for only a small part of the increase in disposable income inequality in most nations.

	Inequality in:			
Country	Market income	Disposable income		
UK 1981-91	<b>A</b>	<b>A</b>		
US 1980-93	<b>A</b>	<b>A</b>		
Sweden 1980-93	<b>A</b>	<b>A</b>		
Australia 1980-81 to 89-90	Δ	Δ		
Denmark 1981–90	Δ	Δ		
New Zealand 1981-89	Δ	Δ		
Japan 1981-90	Δ	Δ		
Netherlands 1981-89	۵	Δ		
Norway 1982-89	Δ	Δ		
Belgium 1985–92	Δ	Δ		
Canada 1980-92	Δ	0		
Israel 1979–92	Δ	0		
Finland 1981-92	<b>A</b>	0		
France 1979-89	0	0		
Portugal 1980-90	0	0		
Spain 1980–90		0		
freland 1980-87	Δ	0		
Germany 1983-90 *	Δ	0		
Italy 1977–91	▽	▽		
Interpretation	Chang	ge in Gini		
A Extremely large incr	ease 30% (	or more		
▲ Large increase	16 to 3	29%		
△ Small increase	5 to 10			
O Zero	-4%1			
∇ Small decline	-5% (	or more		

#### a. Data refer to the Federal Republic of Germany before reunification. Source: Gottschalk and Smeeding 1997.

### Recovery, but no improvement in distribution: the experience of Latin America

The period of rapid growth in the region, beginning in the 1960s and lasting until the outbreak of the debt crisis in 1982, led to an improvement in income distribution. Between 1970 and 1982 the income gap between the richest 20% of the population and the poorest 20% fell from 23 to 1 to 18 to 1. But these improvements were short-lived. In the 1980s the 10% of the population with the highest incomes increased its share by more than 10 percent—at the cost of all other groups. The poorest 10% suffered a 15% drop in their share of income, wiping out the improvements in distribution before the crisis.

The economies of the region have undergone great changes in the 1990s. High inflation has been halted, deep economic reforms have been adopted to support market operations, and productivity and economic growth have been restored. But the concentration of income has remained nearly unchanged, with the region's Gini coefficient staying at around 0.58.

But trends have varied across countries. In Brazil, Chile and Mexico income inequality worsened in the 1980s, but this trend was halted in the 1990s. In Colombia and Costa Rica distribution patterns have remained quite stable. In Honduras and Jamaica income distribution worsened in the early 1990s.

One of the most striking features of income distribution in Latin America is the huge gap between the top and bottom 20%.

## Income distribution in selected Latin American countries

Share of household income (percent)

Country	Poorest 20%	Richest 20%	Gini coefficient <sup>a</sup>		
Uruguay	5.0	48.7	0.43		
Costa Rica	4.3	50.6	0.46		
Peru	4.4	51.3	0.46		
Ecuador	2.3	59.6	0.57		
Brazil	razil 2.5		0.59		
Paraguay	2.3	62.3	0.59		

 a. A Gini coefficient of zero represents perfect equality, a coefficient of one perfect inequality.
 Source: IADB 1998.

### Worsening inequality in Eastern Europe and the CIS

The transition from centrally planned to market economies was accompanied by large changes in the distribution of national wealth and income. Data on income inequality indicate that these changes were the fastest ever recorded. In less than a decade income inequality as measured by the Gini coefficient increased from an average of 0.25-0.28 to 0.35-0.38, surpassing OECD levels. Inequality increased most in the Russian Federation and other CIS countries, least in Eastern Europe. In Ukraine and the Russian Federation the annual increase in the Gini coefficient was three to four times as high as in the United States and United Kingdom.

### Gini coefficient

	1987/88	1993/95	Increase
Ukraine	0.23	0.47	0.24
Russia	0.24	0.48	0.24
Lithuania	0.23	0.37	0.14
Hungary	0.21	0.23	0.02
Poland	0.26	0.28	0.02

Source: Milanovic 1998, Ruminska-Zimny 1999.

BOX 1.5

## The collapse of the East Asian financial markets—economies recovering, but human recovery will take longer

The exchange rate and inflation seem to have stabilized in the Republic of Korea, Malaysta and Thailand Malaysta's stock index has begin to recover, and liquidity is returning to the financial system. Consumer spending is increasing—motor vehicle sales rose from 19,000 in November 1998 to nearly 23,000 in December. These developments are welcome But they mask the continuing human costs of the crists.

Past crises show that while economies regain output growth and macroeconomic balances—inflation—exchange rates balance of payments—fairly quickly, it takes longer for employment and wages to recover An analysis of more than 300 economic crises in more than 80 countries since 1973 shows that output growth recovered to precisis levels in one year on average. But real wage growth took about four years to recover and employment growth five years. Income distribution worsened on average for three years, improving over precrisis levels by the fifth year.

The human costs of the East Asian crisis have been wide ranging and wide spread.

- Bankrupterey Among small businesses especially, bankrupteres soared with currency and stock market plunges and rock eting interest rates. A total of 435 Malaysian firms were declared bankrupt in the nine months from July 1997 to March 1998 Such bankrupteres are a loss of hyelihood for owners and employees of small firms, which unlike large businesses and banks did not receive rescue packages
- Rising poverty. In Indonesia, the poorest country affected, an additional 40 million people (or 20% of the population) are estimated to have fallen into poverty. In Korea and Thailand poverty is expected to rise, with 12% of the population affected in each country. 5.5 million in Korea and 6.7 million in Thailand.
- Starging unemployment Virtually
  unknown for many years in Korea and
  Malaysia, unemployment rose in all countries by 0.3 million in Malaysia, 0.5 million in Thailand, I million in Indonesia and
  1.5 million in Korea Real wages declinedaverage real wages in Korea tell by nearly

10% in the 12 months following April

lob losses bit women, the youth and unskilled workers hardest in Korea Employment declined by 7.1% among women between April 1997 and April 1998 compared with 3.8%, for men. The number of unemployed among those aged 15.29 doubled in 1997. 98, from 300,000 to 600,000, and it tripled for the unskilled, rising from 1.7% to 5.4%. Migrant workers were also bit hard, Lacking valid papers, many were sent back to their home conattries.

- Reduced schooling Families under stress are taking children out of school. In Thailand one study estimates that nearly 100,000 students are not pursuing either primary of secondary education because of the crisis. In Korea enrolment registered small, leclines, at primary and aniddle school levels. But drop outs at the higher level increased by 36%, in 1998.
- · Reduced public services. When tamily incomes are under stress, people need to rely more on public services to finance education and health. In most countries efforts were made to protect public expenditures, but strains are evident it many activities. In Thailand the budget of the Ministry of Public Health was reduced by 10' a, and the community and social services budget by 76%. In the Philippines health expenditures declined by about 10%, and the budget shows reductions in tamily health and nutrition (6") and communicable disease control (10%) Malaysia initially cut all expenditures by 18-20 i, but then introduced a stimulus package
- Increased social stress and fragmentation. Felt in many communities, though difficult to document, increasing domestic violence, street crime and suicides are reported in all countries. In Korea the Hot line for Women received escalating nembers of calls from women suffering domestic violence—seven times as many as in the previous year. The incidence of sincides also went up, from 620 a month in 1996 to more than 900 a month in mid 1998. Unemployment was often reported is the cause of intolerable human pain and social tension.

severe. Escalating prices of essentials such as food and medicines were accompanied by increases in bankruptcies, unemployment, suicides, domestic violence and other consequences. Signs of economic recovery are beginning to emerge in 1999. But studies of past economic crises show that unemployment persists long after inflation subsides and exchange rates recover. People take longer to recover than economies (box 1.5).

An analysis of this crisis spotlights two important lessons about global capital markets. The first is that financial volatility is a permanent feature of today's globally integrated financial markets (figure 1.7). The East Asian crisis is not an isolated accident—it is a symptom of general weakness in global capital markets. Recent UNCTAD studies show a rising frequency of financial crises with the growth in international capital flows of the 1990s. Flows can be volatile, fed by herd behaviour and inadequate information for investors around the world, with investor confidence and risk ratings tumbling overnight. Technological innovations link global financial markets in real time, allowing instantaneous decisions around the world. Markets have also become increasingly sophisticated, with financial innovations that have made available countless financial instruments-from derivatives to hedge funds. In theory, these instruments were intended to transfer and spread risk. In practice, they have become part of the volatility of today's capital markets.

A central feature of the financial crisis in East Asia was the massive new inflows of short-term capital, followed by sudden reversals (box 1.6). A rapid buildup in the early 1990s followed the deregulation of capital controls and the restructuring of financial policies. Net financial inflows to Indonesia, Korea, Malaysia, the Philippines and Thailand totalled \$93 billion in 1996. In 1997, as turmoil hit financial markets, these flows reversed in just weeks to a net outflow of \$12 billion, a swing of \$105 billion, or 11% of the precrisis GDPs of the five countries.

The second lesson is that extreme caution is required in opening up to foreign short-term (often speculative) capital, especially when financial market institutions are not well developed. There are increasing doubts among econ-

A sign of the state tend on the state of the

omists about the benefits of short-term flows. They do not have the same potential as long-term investments to contribute to development. They can even be disastrous, creating macro-economic imbalances, overvaluing the currency, reducing international competitiveness and seriously destabilizing domestic banking systems.

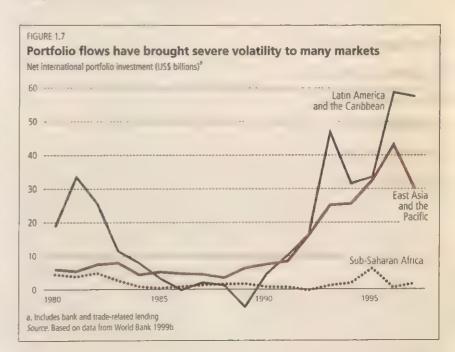
## CONTAGION AND THREAT OF A WORLDWIDE RECESSION

The reversals in human development are spreading—with the contagion to financial markets in Brazil, Russia and elsewhere, but also through slowdowns in global economic growth. IMF, World Bank and UN projections of growth in 1998 show a slowdown of 1-2 percentage points to around 2%, the lowest in five years. Many poor countries are suffering lower export prices due to shrinking world demand. Petroleum exporters have been hit particularly hard, and Angola and Kuwait could lose about a quarter of their export earnings and have their GDPs decline by 14-18%. The impact has also been severe for African countries dependent on primary commodity exports. Because of the collapse in the copper market, Zambia can expect a 26% decline in its copper exports—and a 9% decline in its GDP (table 1.3). World Bank projections of GDP growth in Sub-Saharan Africa for 1999 were revised downward from 4.5% to 3.2%.

### GLOBAL CRIME

Globalization opens many opportunities for crime, and crime is rapidly becoming global, outpacing international cooperation to fight it. There are now 200 million drug users, threatening neighbourhoods around the world. In the past decade the production of opium more than tripled and that of coca leaf more than doubled. In Belarus drug-related crimes increased from 4 per 100,000 people to 28 in 1990–97, in Estonia from 1.4 per 100,000 to almost 8. The illegal drug trade in 1995 was estimated at \$400 billion, about 8% of world trade, more than the share of iron and steel or of motor vehicles, and roughly the same as textiles (7.5%) and gas and oil (8.6%).

Illegal trafficking in weapons is a growing business—destabilizing societies and governments, arming conflicts in Africa and Eastern Europe. Light weapons have the most immediate impact on people's lives. Used in every conflict around the world, they have caused 90% of war casualties since 1945. In El Salvador the homicide rate increased 36% after the end of the civil war. In South Africa machine guns pouring in from Angola and Mozambique are being used in more and more crimes. In Alba-



## Buildup and reversal of short-term capital flows—lessons of East Asia

Capital to East Asia and Latin America increased dramatically in the 1990s. Between 1990 and 1996 financial capital flows to the East Asian countries averaged more than 5% of GDP. The most extreme cases: Thailand and Malaysia. Capital inflows to these two countries averaged more than 10% of GDP during the 1990s, reaching 13% and 17% of GDP in one year. Capital flows then abruptly reversed in 1997. For Thailand capital outflows between 1996 and 1998 amounted to about 20% of GDP. The other countries faced a similar tate

The large inflows before the reversal had had negative effects, contributing to the appreciation of real exchange rates and delayed devaluation in a time of increasing current account deficits, and reducing international competitiveness. They also expanded domestic bank lending and

Source: Lee and Rhee 1999; UNCTAD 1998b.

increased the financial system's vulnerability to reversals of capital flows. An UNCTAD study found no case in any country, developed or developing, where a large increase in liquidity in the banking sector did not lead to overextended lending, a worsening in the quality of assets and laxer risk management.

Not just the amount but the structure of capital inflows determines a country's vulnerability. External borrowings were concentrated in short term debt. Thailand and Korea had short- to long term debt ratios of nearly 50% before the crisis. The ratio of short term debt to GDP was also high in Indonesia. Korea and Thailand, in sharp contrast to China, Malaysia and the Philippines. It is no wonder that the crisis erupted in Thailand and then spread to Indonesia and Korea, leaving the other countries less affected.

At the heart of all this is the growing power and influence of organized crime syndicates, estimated to gross \$1.5 trillion a year nia there were five times as many murders in 1997 as in 1996, a rise attributed to the illegal arming of civilians.

Another thriving industry is the illegal trafficking in women and girls for sexual exploitation, a form of slavery and an inconceivable violation of human rights. In Western Europe alone, about 500,000 women and girls from developing and transition economies are entrapped in this slave trade each year. Women lose not only their freedom, but their dignity and often their health. If they return to their homes, they are often rejected by their families and communities.

At the heart of all this is the growing power and influence of organized crime syndicates, estimated to gross \$1.5 trillion a year-a major economic power rivalling multinational corporations. The sheer concentration of their power and money criminalizes business, politics and government. Look at the Six Triads in China, the Medellín and Cali cartels in Colombia, the Mafia in Italy, the Yakuza in Japan, the Juarez, Tijuana and Gulf cartels in Mexico, the Cosa Nostra in the United States and the organizations in Nigeria, Russia and South Africa. All have operations extending beyond national borders, and they are now developing strategic alliances linked in a global network, reaping the benefits of globalization (box 1.7).

### THE SPREAD OF HIV/AIDS

Global travel spreads more than ideas. The latest estimates by UNAIDS and the World Health Organization show that more than 33

TABLE 1 3 The Asian crisis hurts distant economies and people (percent) Falin GDP a Fall in export earnings 3 Commodity price 1998 1998 Country decline 25 18 Petroleum 25% Angola 21 13 Gabon 25 14 Kuwait 4 Nigeria 24 Venezuela 20 6 9 26 Zambia Copper 31% 6 Mongolia 10 Chile

a, Estimated
Source UNCTAD 1998b.

million people were living with HIV/AIDS at the end of 1998. The spread of the virus continues unabated, with 11 men, women and children becoming infected each minute—about 6 million in 1998. AIDS causes 2.5 million deaths a year, more than twice as many as the 1 million deaths from malaria. Yet some experts say that we are only a tenth of the way into the epidemic.

AIDS is now a poor people's epidemic, with 95% of all HIV-infected people in developing countries. HIV/AIDS has taken a heavy toll on the life expectancy built up over the past three decades. A loss of 17 years in life expectancy is projected for the nine countries in Africa with an HIV prevalence of 10% or more—Botswana, Kenya, Malawi, Mozambique, Namibia, Rwanda, South Africa, Zambia and Zimbabwe—down to 47 years by 2010, back to the life expectancy of the 1960s.

HIV is also spreading fast in areas thought to be relatively free of the virus—in China and even in the vast rural areas of India, where some studies show higher prevalence rates than in urban areas. Eastern Europe and the CIS had appeared to be spared the worst in the early 1990s, but new surveys show stupendous increases in Belarus, Moldova, Russia and Ukraine. There, too, HIV/AIDS is often associated with poverty, spreading among marginalized people, especially through drug use.

### CIVIL CONFLICT, GLOBAL UNREST

Civil conflicts have been flaring for decades. What's new today is the complex interaction of interests, the blurred line between conflict and business. Defence is becoming privatized, and international private military firms are proliferating. In some countries mercenaries often sell their services for mining and energy concessions and set up affiliates in air transport, road building and trading. And more and more, the clients of mercenaries are multinational corporations seeking to protect their mining interests in conflict-prone countries.

Executive Outcomes, Sandline International and Military Professional Resources Incorporated offer military services and training to governments and large corporations and have been particularly active in Africa. The Mobutu government in its final days spent some \$50 million in a desperate attempt to stay in power in the Democratic Republic of the Congo. The rise of military companies is linked to the post-cold war power vacuum. Major powers are less inclined to intervene militarily, especially in low-level conflicts.

Accountable only to those who pay, such businesses are hard to regulate. So far, domestic and international laws seeking to limit mercenaries' operations have been ineffective. The annual reports of the UN Human Rights Special Rapporteur on Mercenaries have regularly urged governments to develop legislation that bans the use of mercenaries in their territories.

## ENVIRONMENTAL DEGRADATION— A SILENT EMERGENCY

Environmental degradation is a global problem that surpasses the scope of national governments. Globalization can improve prospects for environmental management—through the spread of environment-friendly technologies, standards and pressures by consumers and activists. It can also add pressures for environmental exploitation—export-led demand for paper leading to deforestation, and demand for fish leading to overfishing.

Environmental degradation is a chronic and "silent emergency" that threatens the livelihoods of some of the poorest people of the world. Scientists predict a steady rise in global temperatures and sea levels, inundating as much as 17% of the land area in Bangladesh, 12% in Egypt and almost all of the Maldives. Renewable resources are being depleted rapidly and unsustainably: fish stocks are three-quarters of what they once were. Water availability today is 60% of 1970 levels, as is forest coverage. All this threatens the economic security, food security and health security of the world's poorest people.

People are also vulnerable to the "loud emergencies" of the environment. In 1997 and 1998 El Niño and La Niña brought wild swings in temperature and rainfall. El Niño is estimated to have displaced nearly 5 million people, injured 118 million and caused almost

22,000 deaths. The worldwide costs of the El Niño disaster were judged to be as high as \$33 billion. Many scientists believe that the ferocity of the El Niño storms was due to global warming. The storms ruined harvests and fuelled forest fires from Indonesia to Brazil. La Niña hurricanes and floods killed 9,000 people and left more than a million homeless in Nicaragua and Honduras

### WHAT'S TO BE DONE?

Globalization expands the opportunities for unprecedented human advance for some but shrinks those opportunities for others and erodes human security. It is integrating economy, culture and governance but fragmenting societies. Driven by commercial market forces, globalization in

80X 1 7

### Why crime syndicates like globalization

Globalization creates new and exciting opportunities, and among the most enter prising and imaginative opportunists are the world's criminals.

Free movement of capital, say private sector investors, is a precondition of increased foreign investment. But the precipitous removal of currency controls, before a proper regulatory environment has been established, is the perfect condition for money laundering. And sure enough, Eastern European banks became a regular transfer point in the flow of dirty money.

Lowering the barriers to international trade and the transit of goods across borders is generally seen as a good thing. But it also helps the luxury car hijacked on a Johannesburg street to reappear for sale in Moscow.

Think of the organization required to effect such a transfer, or to ship illegal Bangladeshi immigrants to England or Ukrainian girls to a life of prostitution in the Netherlands. As the multinational corporations have led the drive to globalize the world's economy, so the "crime multinationals"—the organized crime syndicates—have been quick to exploit it. The Chinese triads are in the restaurant trade in London. The Sicilian Mafia is selling heroin in New York. And the Japanese Yakuza are financing pornography in the Netherlands

Source: Helsby 1999.

The breakdown of the old order in emerging markets—whether through industrialization, automation and the rise of skill-based economies or through the dislocation of war or economic collapse—creates a burgeoning underclass ripe for exploitation by the crime multinationals. The unemployed in the South African townships make easy recruits for criminal gangs, which have fostered South Africa's rise as a major transshipment point for the worldwide drug trade.

Technological advances create new vulnerabilities. A computer hacker in Russia came close to stealing millions of dollars from Citibank in New York. Nigerian con men take advantage of the semblance of legitimacy that the fax machine gives a forged document. New technology also creates new crimes, such as the piracy of intellectual property—music, films and software.

Paradoxically, the rise of such criminal activities undermines the initiatives that create the opportunity. Who wants to invest in a country where a business partner may turn out to be a gangster who settles arguments with a gun? Who in the international community will want to be seen supporting a government mired in the corruption to which unchecked criminal activity so often leads? The control of organized crime must be ranked high on the international agenda as well as national ones.

this era seeks to promote economic efficiency, generate growth and yield profits. But it misses out on the goals of equity, poverty eradication and enhanced human security.

- First, not just new but stronger policies to protect and promote human development are needed, including policies often called "social protection".
- Second, many problems of human development go beyond what nations can tackle on their own and require more international cooperation.
- Third, action to protect and promote human development must come not only from nations but from communities, NGOs and corporations.

Economic growth, an important input for human development, can translate into human development only if the expansion of private income is equitable and only if growth generates public provisioning that is invested in human development—in schools and health centres, not arms. Human development also depends on unpaid work by men and women in the household or community, providing the "care" so essential to human survival. And it depends on the natural environment, another essential resource for all, particularly for poor people who derive their livelihood from natural resources (figure 1.8).

The rapid expansion of global markets the conditions for people, corporations and nations to compete globally, the urge to privatize and downsize public action in search of economic efficiency—creates an environment in which the needs of human development can be easily neglected, with spending subject to a fiscal squeeze. Reduced public spending weakens institutions of redistribution, leading to inequalities. And as individuals compete in the global economy, they spend time in honing their skills and working at a paid job—putting a time squeeze on caring activities. Care is also squeezed by reductions in public spending. And free market prices do not capture the full environmental costs of production and consumption, putting a squeeze on the natural environment.

Stronger policies for human development —more investment to equip people for the globally competitive economy, and to participate in the global network society—are needed to promote human development. But they are also needed to make globalization work. Ultimately, people and nations will reject global integration and global interdependence if they do not gain from it and if it increases their vulnerability. Pressures will mount to retreat to isolationism in economic policy, culture and political priorities.

To pursue human development, globalization has to mean:

- Ethics—less, not more violation of human rights and disregard of human values.
- Development—less, not more poverty of countries and people.
- Equity—less, not more disparity between and within nations and generations.
- *Inclusion*—less, not more marginalization and exclusion of countries and people.
- *Human security*—less, not more vulnerability of countries and people.
- Sustainability—less, not more depletion and degradation of the environment.

FIGURE 1.8

Provisioning for human development



Source: Human Development Report Office.



	Exports of goods and services		Imports	of goods and	. Manufactures as % of				
		As	% of GDP		As % of GDP		merchandise exports		
HDI rank	Total (US\$ millions) 1997	1997	index (1985 = 100) 1997	Total (US\$ millions) 1997	1997	Index (1985=100) 1997	1997	Index (1985=100) 1997	
High human development	4,993,093 T	20	. 156	4,866,827 T	20	154	80	113	
1 Canada	234,297 a	40 a	162 a	211,487 a	36 a	165 ª	63	107	
2 Norway	64,230 a	41 a	138 a	50,620 a	32 a	98 °	24	81	
3 United States	856,000 a	12 a	200 a	965,700 a	13 a	151 a	81	116	
4 Japan	456,889 a	10 °	106 ª	432,269 a	9 a	164 °	95	98	
5 Belgium	183,718 *	68 ₽	135 4	171,012 °	64 ª	140 °	46	46	
6 Sweden	100,672 a	40 a	147 a	83,713 °	33 a	134 ²	80	100	
7 Australia	81,856 a	20 a	164 a	79,579 a	20 *	154 *	29	183	
8 Netherlands	212,504 *	54 a	127 #	187,182 ª	47 4	121 ª	71	139	
9 Iceland	2,649 •	36 *	100 a	2,612 *	36 ª	95 a	12	129	
10 United Kingdom	340,685 *	30 a	128 a	349,600 a	30 ª	136 <sup>a</sup>	83	127	
		24.8	130 °	328,652.*	21 4	132 "	78	106	
11 France	368,605 *	24 ª 36 ª	130 °	328,652 ° 94,088 °	32 4	126 *	93	101	
12 Switzerland	106,413 *	38 a	142 a	37,251 *	30 a	129 4	83	108	
13 Finland	47,347 *	24 4		541,018 °	23 a	123	83	97	
14 Germany	569,614 a	35 *	 129 a	56,229 a	31 °	123 ª	63	110	
15 Denmark	64,916 ª								
16 Austria	93,400 a	41 *	133 a	94,628 4	41 *	136 a	88 a	103 a	
17 Luxembourg	15,467 *	91 ª	94 *	13,729 a	81 ª	85 ª	41	0.0	
18 New Zealand	18,921 °	29 a	134 *	18,337 ª	28 ª	149 ª	29 a	131 *	
19 Italy	324,046 *	27 a	149 *	260,606 a	21 *	140 ª	89	105	
20 Irefand	53,981 *	76 ª	166 ª	43,237 ª	61 ª	128 °	81	125	
21 Spain	148,125 a	26 °	157 a	143,065 a	25 ⁴	212 *	78 ª	110 °	
22 Singapore	44	94	tra -	44	**	**	84	164	
23 Israel	31,065	32	113	43,873	45	131	92	111	
24 Hong Kong, China (SAR)	225,481	132	218	232,082	135	246	89	103	
25 Brunei Darussalam	ni ni	16	14	ae	*1	46	44	84	
25 6					44	at	56	101	
26 Cyprus 27 Greece	18,841 *	15 *	148 <sup>a</sup>	29,295 a	24 a	166 a	52	106	
	33,658 ª	31 4	147 a	41,672 °	38 a	202 a	86	113	
28 Portugal 29 Barbados	•			***	н	pp.	54	64	
30 Korea, Rep. of	168,683	 38	185	171,885	39	192	92 4	101 ª	
30 Rolea, Rep. bi	100,003	30	103	(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
31 Bahamas	0.0	**		2.447	0.4	40	 97 *	106 a	
32 Matta	2,795	84	b w	3,117	94	10	89		
33 Słovenia	10,458	57	47.6	10,635	58	206	16	227	
34 Chile	20,716	27	136	22,540	29	206	14	221	
35 Kuwait	15,974	53	**	12,407	41	pis		4	
36 Czech Republic	29,950	58	bit	32,808	63	##	85	84	
37 Bahrain	6,357	104	4.0	4,370	72	**	12 a	257 ª	
38 Antigua and Barbuda	**	**	10	14		**	**	**	
39 Argentina	29,318	9	148	34,899	11	367	34	160	
40 Uruguay	4,511	23	150	4,563	. 23	251	37	105	
41 Qatar			48	46		às	41		
42 Slovakia -	10,976	56	ap	12,366	64	0.5	79		
43 United Arab Emirates		.,,,,,	40	44	64	+8	80	**	
44 Poland	35,616	26	220	41,170	30	272	73	116	
45 Costa Rica	4,360	46	188	4,529	48	192	25 ₹	113 *	
			159	1,270,896 T	26	159	58		
Medium human development	· 1,255,577 T	26 , 3				94	44	241	
46 Trinidad and Tobago	2,912	49	103	3,316	56 46	174	77	115	
47 Hungary	20,801	45	150	21,013	46	112	12	120	
48 Venezuela	25,735	29	152	17,692	20 <b>91</b> a	99 a	17	136	
49 Panama	7,759 a	94 a	88 a	7,520 a	30	302	81	298	
50 Mexico	121,772	30	249	121,896	30	302	01	250	

### A1.1 Trade flows

	Exports	of goods and	services	Imports of goods and services		Manufactures as % of			
			% of GDP		As	% of GDP	merchandise exports		
HDI rank	Total (US\$ millions) 1997	1997	Index (1985 = 100) 1997	Total (US\$ millions) 1997	1997	Index (1985 = 100) 1997	1997	Index (1985 = 100) 1997	
						-			
51 Saint Kitts and Nevis	120 4	48 °	**	184 *	74 *	80	34		
52 Grenada	132 °	45 1	104 *	193 °	65 4	95 *	13.4	284 4	
53 Dominica	125	51	141	155	64	107	49 -	140 ª	
54 Estonia	3,614	77	20	4,148	89	#1	<b>6</b> 6		
55 Croatia	8,014 *	42 *	69	10,200 *	53 4	80	69		
56 Malaysia	92,877	94	193	91,360	93	215	76 *	279 1	
57 Colombia	14,553	15	164	17,422	18	226	31	182	
58 Cuba	40	es es	10	9	m m	81	н		
59 Mauritius	2,725	62	137	2,879	65	151	71	156	
60 Belarus	13,469	60		14,386	64	131	, ,	730	
			10						
61 Fijl	1,204	57	bo.	1,240	59	**	+0		
62 Lithuania	5,224	55	\$40.	6,237	65	41	70		
63 Bulgaria	6,178	61	27	5,619	56	15	11		
64 Suriname	89	24	82	44	84	84			
65 Libyan Arab Jamahiriya	89	go.	8.0	**	H	01	M	1	
66 Seychelies	365	68	185	438	81	238	(,) a	54	
67 Thailand	72,382	47	194	71,340	46	182	71	188	
68 Romania	10,359	30		12,802	37		79		
69 Lebanon	1,558	10	6-0	8,056	54	49		41	
70 Samoa (Western)	75 *	43 *	he	127 4	73 *	14	H		
10 Salling (Asegretti)	13"	43 *	64	127 *	75 "	alt	61		
71 Russian Federation	102,196	23	ą.e	90,065	20	01	23	84	
72 Ecuador	5,930	30	144	5,734	29	107	9	1,128	
73 Macedonia, TFYR	880	40	99	1,232	56	76		**	
74 Latvia	2,791	50	45	3,352	61	40	58		
75 Saint Vincent and the Grenadin	es 144 <sup>4</sup>	52 a	72 *	176 *	64 *	81 4	13		
76 Kazakhstan	7,810	35		8,280	37				
77 Philippines	40,284	49	218	48,777	59	 293	45	166	
78 Saudi Arabia	62,991	45			31		94	294 4	
79 Brazil		8	121	43,017		200	_		
80 Peru	61,982 8,182		131	83,556	10	266	54	123	
	0,102	13	107	10,617	17	179	17	138	
81 Saint Lucia	406 a	68 *	44	417 *	70 ª	44	25 ª	99 4	
82 Jamaica	2,109	51	101	2,645	64	144	69 a	130 °	
83 Belize	320	49	83	334	51	86	13	51	
84 Paraguay	2,226	22.	285	2,477	24	439	15	277	
85 Georgia	623	12	45	1,192	23	410	4.0	PR	
86 Turkey	46,675	25	N	57,698	30		75	123	
87 Armenia	330	20		952	58	**			
88 Dominican Republic	7,221	48	273	7,595	51	237	84	# 0	
89 Oman							17	26	
90 Sri Lanka	5,507	36	155	6,569	44	112	17		
			133			112	**	*1	
91 Ukraine	20,126	41	44	22,009	44	,	14	**	
92 Uzbekistan	th to	et	9.6	41	14	**	40		
93 Maldives	**	4)	**		**	**			
94 Jordan	3,572	51	163	5,186	74	138	14		
95 Iran, Islamic Rep. of	88	94	ηd	4.0	ek	91	**	**	
96 Turkmenistan	40								
97 Kyrgyzstan	675	38	98	815	46	10	38 a		
98 China	207,303	23	163			01		**	
	783	100		166,759	18	81	85		
99 Guyana			40	854	109	84	**	11	
100 Albania	292	12	**	915	37	415	65		

Exports of goods and service		services	Imports	Manufactures as % of				
		As	% of GDP		As	% of GDP		andise exports
HDI rank	Total (US\$ millions) 1997	1997	Index (1985 = 100) 1997	Total (US\$ millions) 1997	1997	index (1985=100) 1997	1997	Index (1985=100) 1997
101 South Africa	35,848	28	130	24.200	27	47.4	55.4	
102 Tunisia	8,251	44	140	34,365 8,719	27 46	174 107	55 ª 78	175
103 Azerbaijan	833	19		1,649	37			
104 Moldova, Rep. of	984	53	40	1,432	76	Φú	**	**
105 Indonesia	60,106	28	125	60,700	28	119	42	325
			163			112	74	252
106 Cape Verde	108	25	49	272	64	##	44	44
107 El Salvador	2,741	24	135	3,930	35	194	39	151
108 Ta <sub>ji</sub> kistan	00	84	40	PI	110	a+	**	#1 
109 Algeria	14,681	31	134	10,534	22	45	3	187
110 Viet Nam	11,480	46	le .	13,443	54	44	**	8.4
111 Syrian Arab Republic	5,343	30	161	7,189	40	61	64	89
112 Bolivia	1,644	21	183	2,334	29	194	16	4,219
113 Swaziland	1,075	82	118	1,265	96	76	84	10
114 Honduras	1,673	37	91	2,131	47	116	27	739
115 Namibia	1,726	53	95	1,908	58	78	17	
116 Vanuatu	·							
	7 100	18	120	4,193	24	173	30	147
117 Guatemala	3,186			· ·				
118 Solomon islands	471	55	49	513	60	**	10 *	**
119 Mongolia	471	20	124	18,820	25	 58	40	400
120 Egypt	15,251							
121 Nicaragua	803 ª	41 *	197 *	1,294 ª	66 a	170 4	25	389
122 Botswana	2,857 *	56 a	87	1,901	38	68 *	6.4	19
123 São Tomé and Principe	12	28	4.6	41	94	64	**	**
124 Gabon	3,296	64	138	2,165	42	61	2 ª	**
125 Iraq	4+	40	100	44	44	44	**	14
126 Morocco	9,342	28	164	10,622	32	144	49	122
127 Lesotho	309	33	151	1,215	128	62	0.0	10
128 Myanmar	a 40	as	44	9-0	0.0	**	**	**
129 Papua New Guinea	2,605	56	142	2,782	60	96	**	**
130 Zimbabwe	3,227	36	163	3,829	43	196	32	109
124 5		404	544	630	129	531	61	
131 Equatorial Guinea	489	101	171	59,230	16	119	72 *	125 4
132 India	44,107	12	170	2,640	38	155		**
133 Ghana	1,657	24	89	2,041	22	116	8 4	**
134 Cameroon	2,443	27			68	71		**
135 Congo	1,767	77	146	1,565				
136 Kenya	2,994	29	110	3,787	37	199	25	222
137 Cambodia	920	30	27	1,281	42	**	**	
138 Pakistan	10,009	16	137	12,955	21	83	86	139
139 Comoros	30	16	219	76	39	77	**	46
Low human development	49,958 T	28	. 147	56,692 T	31	105	**	44
				721	41	ęż.	40	
140 Lao People's Dem. Rep.	418	24	75	1,350	22	57	44	84
141 Congo, Dem. Rep. of the	1,463	24				95	3 9	161 a
142 Sudan	464	21	78	550	37	66	N	14
143 Togo	464	31	228	1,856	38	188	95	161
144 Nepal	1,296	26		160	42			47
145 Bhutan	120	31	5.0					**
146 Nigeria	16,286	41	106	13,677	34	57	24	
147 Madagascar	773	22	125	1,064	30	86	28	271
148 Yemen	2,489	44	**	2,966	52	24 (P.A.	24	44
149 Mauritania	435	40	53	533	49	51	07.3	
150 Bangladesh	5,075	12	286	7,656	18	164	87 ª	133 a

### A1.1 Trade flows

	Exports	Exports of goods and services			Imports of goods and services			Manufactures as % of	
		As % of GDP			As	As % of GDP		andise exports	
HDI rank	Total (US\$ millions) 1997	1997	Index (1985 = 100) 1997	Total (US\$ millions) 1997	1997	Index (1985=100) 1997	1997	Index (1985=100) 1997	
151 Zambia 152 Haiti 153 Senegal 154 Côte d'Ivoire 155 Benin	1,276 236 1,481 4,777 531	33 8 33 47 25	99 131 106 131 58	1,474 650 1,730 4,055 696	38 23 38 40 33	93 225 79 107 62			
156 Tanzania, U. Rep. of 157 Djibouti 158 Uganda 159 Malawi 160 Angola	1,259 a 207 826 613 5,196	, 22 * 41 13 24 68	163 100 174	2,118 <sup>4</sup> 285 1,335 870 5,003	36 4 57 20 35 65	 114 99 183			
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic	694 271 191 110 213	18 17 47 6 21	102 82 63 119	811 562 248 451 236	21 35 61 24 23	 60 93 185 82	43 a	· · · · · · · · · · · · · · · · · · ·	
166 Mali 167 Eritrea 168 Guinea-Bissau 169 Mozambique 170 Burundi	644 201 56 500 96	25 31 21 18 10	163  384 216 97	889 583 106 937 136	35 89 40 34 14	70  44 59 63	 17 ª		
171 Burkina Faso 172 Ethiopia 173 Niger 174 Sierra Leone	331 1,017 300 116	14 16 16 14	83 100 71 273	721 1,682 440 140	30 26 24 17	85 88 48 296	•		

a. Data refer to 1996.

Source: Columns 1-8: World Bank 1999b.

Net official development assistance (ODA) disbursed or received <sup>c</sup>

	Net fo	ect	po	Net Net bank portfolio and trade- investment related			di I	stance (c sbursed received disburseme	or c	Externa	l debt	Debt	Sovereign long-
	invest flov (US\$ m	ws	fl	ows a millions)	ler	iding b millions)	Total (US\$ millions)	As % of GNP	Per capita (US\$)	Total (US\$ millions)	As % of GNP	Debt service ratio d (%) 1997 1997 1997 1997 1997 1997 1997 199	term debt rating *
HDI rank	1985	1997	1985	1997	1985	1997	1997	1997	1997	1997	1997		1998
High human development	44,388 T	266,225	۲	**			<i>48,324</i> T	0.2	66 <sup>1</sup>	14	żτ	**	
1 Canada	1,357	8,246					2,045	0.3	64 1				AA+
2 Norway	- 426	3,181					1,306	0.9	308				AAA
3 United States	20,010	90,748	**				6,878	0.1	301		**	**	AAA
4 Japan	642	3,224			**	••	9,358	0.2	791		**	**	AAA
5 Belgium	1,051 9	12,550 9		**	•		764	0.3	88 1		•	•	AA+
6 Sweden	393	9,659	**	-,		**	1,731	0.8	2221				AA+
7 Australia	2,063	9,584	*	••	**		1,061	0.3	591		**		AA
8 Netherlands 9 Iceland	1,505 24	8,725	**			**	2,947	0.8	2121		**		AAA A+
10 United Kingdom	5,480	36,897			**	e1	3,433	0.3	 55 f	1)			AAA
11 France	2,595	18,280					6,307	0.5	1251				AAA
12 Switzerland	1,267	3,500	69	**	**	9.0	911	0.3	1481				AAA
13 Fin and	110	1,543	40	41	40	4.0	379	0.3	811				AA
14 Germany	490	-195	40	S.F	44	0.7	5,857	0.3	87 f	41			AAA
15 Denmark	111	2,570	**	**	44	\$-b	1,637	1.0	3421		44	11	AA+
16 Austria	173	1,700	*1	40	0.0	**	527	0.3	72 f	he	,,,	44	AAA
17 Luxembourg	**	40	43	91	11	4.0	95	0.6	2261		11	**	AAA
18 New Zealand	1,266	1,343	411	**	54	45	154	0.3	381		14	41	AA+
19 Italy	1,072	3,523	49	45	**	**	1,266	0.1	331		94	49	AA
20 Ireland	164	4,152	sh th	14	44	**	187	0.3	511	44	00	**	AA+
21 Spain	1,968	5,556	**	49	10	4.	1,234	0.2	341	++	8.6	46 0	AA
22 Singapore	1,047	10,000	**	**	61	14	1 <sup>h</sup> 1,192 <sup>h</sup>	(.) 1,2	0 241	40			AAA A-
23 Israel	99	3,407 2,600	4.0	et	**	10	1,192 " 8 h	(.)	241	46			A
24 Hong Kong, China (SAR) 25 Brunei Darussalam	-142 4	2,000	40	61	.00	46	(,) h	117	i	90			
							49 h	0,6	71	11			A+
26 Cyprus 27 Greece	58 447	175 1,500	6.6	he	49	20 20	"	0.0	**	46			B8B
28 Portugal	274	1,713	24	**	11	40	250	0.3	251	94			AA
29 Barbados	5	18	21	84	17	-20	3	40	12	644.3		7.5	
30 Korea, Rep. of	234	2,341	1,271	2,704	1,388	6,264	-160 <sup>j</sup>	(.)	-4	143,372.5	32.8	8.6	B8+
31 Bahamas	-30	89		00	4+	v>	3 h	10	12	10.0	41	9.0	49
32 Malta	19	110	**		(.)	93	22	0.7	62	1,033,9	30.6		A+
33 Slovenia	8.6	321	8.0	-37		-69	97	0.5	49	4,762.1	26.0		A
34 Chile	144	5,417	***	1,525	684	2,695	136 2 h	0.2	10 2	31,440.1	42.4		A- A
35 Kuwait	7	45	**	dr a	44	40		(.)					
36 Czech Republic	40	1,301		221	-118	311	107 h	0.2	10	21,456.3	41.8 138.4 i		A-
37 Bahrain	101	15	205	Bef	28	8.0	84 4	1.6 0.8	165 62	7,084.0 1	59.7	91	64
38 Antigua and Barbuda 39 Argentina	16	28	-151	11,250	2,501	1,939	222	0.1	7	123,221.4	38.7	58.7	BB
40 Uruguay	919 1	6,327 200	89	451	-72	22	57	0,3	18	6,652.0	33.6	15.4	8B8-
							f h	24	2	89	44	áπ	BBB
41 Qatar 42 Slovakia	8	55 170	44	37	-171	872	67 h	0.3	13	9,989.0	51.7	12.2	BB+
43 United Arab Emirates	-221	100	**	41	н		4 h	*1	2		- 11	60	**
44 Poland	15	5,000	-15	1,748	-172	131	641 h	0.5	17	39,889.5	29.5	6.1	BBB-
45 Costa Rica	70	500	84	41	45	7	49	- 11	11	3,548.4	38.1	11.8	BB
Medium human development	10,311 T	126,766 T	3,916 T	53,433 T	11,076 T	51,478 T	24,130 T	0.6	6	1,720,856.1 T	32.9	18.0	
46 Trinidad and Tobago	1	340	56	-150	96	-94	33	0.6	27	2,161.5	38.8	19.6	BB+
47 Hungary	19	2,085	495	598	1,212	-72	152 h	0.3	15	24,373.4	55.0	29.7	BBB
48 Venezuela	68	4,893	-65	256	-517 26	938	28	(,)	1 51	35,541.5	41.6	31.3	B+
49 Panama	67	340	-20 477	461 2 526	26 341	~48 5,530	124 108	1.5	51 1	6,338.0 149,689.9	75.4 38.4	16.4 32.4	BB+ BB
50 Mexico	1,984	12,101	-477	2,526	-341	JJJOU	100	(+)		, 72,003,3	50.7	W 600 T	00

A1.2 Resource flows

Net official development assistance (ODA) disbursed or received <sup>c</sup>

	Net foreign flet direct portfolio investment investment flows flows *		olio ment	Net bank and trade- related lending b		Total As % Per			External Total	As=,	Debt service ratio d	Sovereign long- term debt	
HDI rank	1985	1997	1985	1997	1985	1997	1997	1997	1997	1997	GNP 1997	1997	rating * 1998
51 Saint Kitts and Nevis	8	25	40			-1	7	2.7	168	62.0	24.3	3.9	
52 Grenada	4	22			-1	-1	8	2.7	86	105.3	34.9	5.7	
53 Dominica	3	20	84	40	24	-	14	6.2	194	161.4	43.5	8.2	21
54 Estonia	**	262		82	81	-2	65 h	1.4	42	658.4	14.5	1.4	888+
55 Croatia	100	348	100	485	40	1,524	44	0.2	9	6,841.5	35.2	11,9	888-
56 Malaysia	695	3,754	2.253	2,014	-2,162	2,192	-2411	-0.3	-13	47,228.2	50.5	7.5	B88-
57 Colombia	1,023	2,447	-1	1,184	392	2,984	274	0.3	8	31,777.4	34.4	26.6	888-
58 Cuba	(,)	13			212		67		6	35,344.0	34.4	200	900
59 Mauritius	8	38	65	624	-19	94	42	1.0	39	2,471.6	56.7	10.9	
60 Belarus		163				-31	43 h	0.2	4	1,161.5	5.2	1.8	
	ţn.		10	00	601								
61 Fiji	22	12	10	01	11	-12	44	2.2	59	213.4	10.5	3.0	**
62 Lithuania	**	355	10	90	64	193	102 1	1.1	27	1,540.5	16.4	6.0	888-
63 Bulgaria	99	497	44	69	887	3	206 h	2.1	24	9,858.3	101.3	14.4	B
64 Surname	21	12		00	9	det.	77	11.4	191	118.0	17.5		
65 Libyan Arab Jamahiriya	119	110	99	949	271	0.0	9	0-0	2	3,363.0			
66 Seychelles	12	49		45	5	-3	15	2.8	212	149.1	28.2	4.0	RI
67 Thailand	163	3,600	179	1,418	794	-1,719	626	0.4	11	93,415.7	62.6	15.4	888-
68 Romania	*0	1,224	40	422	-645	637	197 h	0.6	9	10,442.1	30.2	15.7	8-
69 Lebanon	7	150	40	808	-30	112	239	1.6	65	5,036.2	32.8	14.4	88-
70 Samoa (Western)	(.)	1		10	(.)	100	28	14.4	173	156.3	80.1	3.8	21
71 Russian Federation		6.241											
72 Ecuador	62	6,241	10	6,666	1,564	-454	718 h	0.2	5	125,645.2	28.7	6.5	CCC-
73 Macedonia, TFYR		577 16	-2	-135	203	387	172	0.9	16	14,918.4	79.4	31.0	
74 Latvia	+0	418	40	23	**	-7 15	149 81 h	6.8 1.5	78 30	1,542.5	70.8	8.8	200
75 Saint Vincent and the Grenadines	2	42	1/4		(.)	-2	6	2.2	56	257.8	9.0 94.8	8.3	888
			44	04	147		0					0.5	
76 Kazakhstan	49	1,320	10	400	49	436	131	0.6	8	4,278.0	19.5	6.5	B+
77 Philippines	12	1,253	-71	2,704	868	238	689	8.0	11	45,433.3	53.0	9.2	BB+
78 Saudi Arabia	491	400	150	g. 49	564	40	15	(.)	1	19,222.0	13.5 1		93
79 Brazil	1,441	16,330	-215	5,056		18,669	487	0.1	3	193,662.8	24.1	57.4	88-
80 Peru	1	2,000	4.0	~110	81	1,175	488	8.0	22	30,495.7	48.8	30.9	BB
81 Saint Lucia	17	45	**	9.0	44	44	24	4.1	160	151.7	25.7	3,3 (	
82 Jamaica	-9	180		200	41	40	71	1.8	29	3,912.9	97.7	16.2	
√ 83 Belize	4	23	2.0	an	-3	-7	14	2.3	72	383.4	62.2	9.2	• •
84 Paraguay	1	200	23	14	-5	23	116	1.2	27	2,052.5	20.8	5.0	88-
85 Georgia	n+	100	44	84	19.19	(.)	246	4.7	45	1,445.5	27.4	6.4	
86 Turkey	99	606	-6	2,552	6	8,864	-11	(.)	(.)	91,205.4	47.1	18.4	В
87 Armenia		43					168	9.6	47	665.5	38.0		
88 Dominican Republic	36	250		2		-2	76	0.5	11	4,238.7	29.0	5.8 6.2	 B÷
89 Oman	161	90		263		-234	20	۳۰ ۲	11	3,601.7		5.9	BBB-
90 Srl Lanka	26	140		148		-4	345	2.3	20	7,638.1	51.2	6.4	DDD-
91 Ukraine													
92 Uzbekistan	44	623		**	**	796	176 h		3	10,901.3	22.2	6.6	**
93 Maldives	1	85		84	-	150	130	0.5	6	2,760.5	11.2	12.9	9-1
94 Jordan	1 25	10		400		5	26	8.4	119	160.3	51.8	6.7	**
95 Iran, Islamic Rep. of		70		160		-122	462	6.8	130	8,234.1	121.0	11.1	BB-
	-38	50	9.9	si de	-200	-353	196	0.2	4	11,816.4	9.6	32.2	
96 Turkmenistan		121		40	44	762	11	0.4	3	1,771.2	62.5	34.7	**
97 Kyrgyzstan	70	83	47	40	41	4.0	240	14.1	54	928.2	54.4	6.3	41
98 China	1,659	45,300	971	11,787		4,805	2,040	0.2	2	146,697.0	16.6	8.6	BBB+
99 Guyana	2	90	4.0	41.6	-5	-5	272	39.9	340	1,610.6	236.0	17.6	
100 Albania	te	48	14	41	an	-1	155	6.2	48	706.0	28.1	7.1	

## A1.2 Resource flows

Net official development assistance (ODA) disbursed or

		oreign rect		let tfolio		bank trade-		received disburseme	c	Externa	t dala		Sovereign
	inves flo	tment rws nillions)	inves	stment ws <sup>a</sup> millions)	rel tene	lated ding <sup>b</sup> millions)	Total (US\$ millions)	As % of GNP	Per capita	Total (US\$ millions)	As % of GNP	Debt service ratio <sup>d</sup> (%)	term debt rating *
HDI rank	1985	1997	1985	1997	1985	1997	1997	1997	1997	1997	1997	1997	1998
101 South Africa 102 Tunisia	-449 108	1,705 360	wd ed	2,016 586	109	-131 1	497 194	0.4	14 23	25,221.6 11,322.7	20.0	12.8 16.0	BB+ BBB-
103 Azerbaijan 104 Moldova, Rep. of 105 Indonesia	310	872 43 5,350	-40	75 3,417	195	121 2,769	182 63 832	4.2 3.5 0.4	25 15 5	503.7 1,039.8 136,173.5	11.7 57.4 65.3	6.8 10.9 30.0	 CCC+
106 Cape Verde 107 El Salvador 108 Tajikistan	12	13 41 4	-9 	99 99	-42 	1 50 (.)	110 294 101	26.2 2.6 5.0	317 57 19	220.0 3,281.8 901.1	52.5 29.4 44.6	5.5 7.0 4,6	BB
109 Algeria 110 Viet Nam	(.)	7 1,200 -	429	-94	111	-557 <b>287</b>	248 997	0.6 4.1	10 15	30,920.6 21,629.3	69.0 89.4	27.2 7.8	
111 Syrian Arab Republic 112 Bolivia 113 Swaziland 114 Honduras	37 10 12 28	80 500 75 80	-1	-3 -30	85 35 9 36	11 213  33	199 717 27 308	1.2 9.2 1.9 6.7	16 107 34 61	20,864.7 5,247.5 368.2 4,697.8	126.4 67.6 25.4 102.8	9.3 32.5 2.5 20.9	BB- 
115 Namibia 116 Vanuatu 117 Guatemala	16 5 62	131 30 130	-10	106	(.) 19	(.) -30	166 27 302	5.0 11.6 1.7	120 178 34	47.9 4,085.7	2.6 <sup>1</sup> 20.5 23.2	1.5 9.9	
118 Solomon Islands 119 Mongolia 120 Egypt	1,178	22 7 834	10	1,813	6  550	-4 9 109	42 248 1,947	11.4 25.2 2.5	126 110 36	135.4 717.9 29,849.1	36.9 72.9 39.0	2.4 11.7 9.0	 BBB
121 Nicaragua 122 Botswana 123 São Tomé and Principe 124 Gabon	54  15	92 100  -100	(,)	95 95 98	13 -12 (,) 96	-16 -5  -5	421 125 34 40	2.6 87.5 0.9	95 287 40	5,677.4 562.0 260.7 4,284.5	305.6 11.5 671.2 95.7	31.7 5.21 52.0 13.1	11
125 Iraq 126 Morocco 127 Lesotho	(.) 20 5	500 29	-21	243	1,627 237 6	-140 13	281 462 93	1.4 7.3	15 19 53	21,912.0 <sup>1</sup> 19,320.8 659.8	59.5 51.9	26.6 6.4	 BB 
128 Myanmar 129 Papua New Guinea 130 Zimbabwe	83 4	80 300 70	19 -29	-2  20	56 167 40	102 -57 -18	45 349 327	8.6 3.9	1 89 33	5,074.1 2,272.5 4,961.3	56.3 58.5	8.0 15.0 22.0	**
131 Equatorial Guinea 132 India 133 Ghana	2 106 6	40 3,264 200	320	4,035 46	1 1,954 35	920 27	24 1,678 493	4.9 0.4 7.3	67 2 32	283.2 94,404.2 5,982.0	57.8 24.9 88.6	1.4 19.6 29.5	BB
134 Cameroon 135 Congo 136 Kenya	316 13 29	45 9 40	0h 0a	12	-241 97 8	-29  -119	501 268 457	5.9 14.7 4.6	43 117 19	9,292.9 5,070.8 6,485.8	109.2 278.4 64.7	20.4 6.2 21.5	44
137 Cambodia 138 Pakistan 139 Comoros	131	200 800 2	80 81 54	627	-170 (.)	-3 757	372 597 28	12.2 1.0 14.5	42 5 63	2,128.7 29,664.5 197.4	69.9 47.5 101.9	1.1 35.2 3.9	CC
Low human development	980 T	2,449 T	10	14	178 T	-1,125 T	13,285 T	10.5	28	173,123.7	93.4	13.1	**
140 Lao People's Dem. Rep. 141 Congo, Dem. Rep. of the 142 Sudan 143 Togo	69 -3 16	90 1 (.) 1	(.)	91 81 62	-35 -14	-6	341 168 187 124	19.5 3.2 2.1 8.6	82 4 8 34	2,319.9 12,329.6 16,326.1 1,339.0	132.4 232.3 182.4 92.6	6.5 0.9 9.2 8.1	
144 Nepal 145 Bhutan	1	1,000	19	4	5  955	-11 -2 -258	414 70 202	8.4 21.3 11.0	22 113 25	2,397.7 89.3 28,455.1	48.6 27.2 75.6	6.9 5.1 7.8	**
146 Nigeria 147 Madagascar 148 Yemen 149 Mauritania	486 (.) 3 7	17 50 3	48 48 60	in sin grain gray	5 6 2	-1 2	838 366 250	24.3 7.3 23.9	71 27 120	4,104.7 3,856.3 2,453.2	119.2 76.7 234.7	27.0 2.6 24.2	)+1 ***
150 Bangladesh	1	145	ψik	11	-3	-28	1,009	2.3	9	15,125.3	35.1	10.6	**

### A1.2 Resource flows

Net official development assistance (ODA) disbursed or

		_	Net portfolio		Net bank and trade-		(net disbursements)			External debt		Debt	Sovereign long·
	investm	investment flows (US\$ millions)		flows a (US\$ mallions)		lending b (LS\$ millions)		As % of GNP	Per capita (US\$)	Total (US\$ malians)	As % of GNP	ratio d (%)	term debt rating "
	1985	1997	1985	1997	1985	1997	1997	1997	1997	1997	1997	1997	134
in milita	52	70	40		12	9	618	16.9	77	6,757.8	184.6	19.9	
					-4	Att	332	11.8	50	1,057.2			
					-5	14	427	9.6	57	3,670.6			
				18	(.)	-436	444	4.7	37	15,608.6	165.3	27.4	
					-18		225	10.7	46	1,624.3	76.9	9.1	
									37	7,177.1	97.2	12.9	
									163	283.6	57.1	3.1	
,			0.0						50	3,707.9	56.5	22.1	
									40	2,206.0	89.0	12.4	
						-374	436	9.9	46	10,159.8	231.8	15.9	
Angola		330	64				207	10.3	65	3 520.4	95.3	21.5	
Guinea	*	1	90	40									
Chad													
Gambia	-	13	41	0.0							,		
		1	65	8.6	_					7			
Central African Republic	3	6	**			40							
Mali	3	15	01	10	-2	44							
	w0	10	н	6.0	ed	41							
	1	2	04	44	20	10							
	(.)	35	40	94	54	2							
	1	1	to.	41	-3	848	119	12.6	21	1,065.5	112.6	29.0	
	_1	1		210	_9	44	370	15.5	41	1,297.1	54.3	11.8	
		15		44	59	23	637	10.1	12	10,078.5	159.0		
		1	-		-7	-14	341	18.4	87	1,579.1	86.3		
Sierra Leone	-31	4	-	10	-4	84	130	16.0	32	1,148.7	141.4	21.2	
	Cambia diaiti denegal Lôte d'Ivoire denin Ganzania, U. Rep. of Diibouti Uganda Malawi Angola Guinea Chad Gambia Rwanda Central African Republic Mali Eritrea Guinea-Bissau Mozambique Burundi Burkina Faso Ethiopia Niger	direction   investment   flows   (USS mill   1985	The state of the	direct   investment   flows   flows   (US\$ millions)   (US\$ millions)	direct   investment   flows   (US\$ millions)   (US\$ mil	direct   investment   flows   flows	direct   investment   flows   flows   customent   customent   flows   customent   flows   customent   flows   customent   customent   flows   customent   customent	Control   Cont	Common	Total   As %   Per   Filter   Filter	Mark to begin   Mirect   Mir	Variable   Variable	Part   Part

a. Portfolio investment flows (net) include non-debt-creating portfolio equity flows (the sum of country funds, depository receipts and direct purchases of shares by foreign investors) and portfolio debt flows (bond issues purchased by foreign investors).

b. Bank and trade-related lending covers commercial bank lending and other private credits.

c. Data in italics refer to net ODA disbursed by Development Assistance Committee member countries.

d. Total debt service as a percentage of exports of goods and services.

e. Ratings cover foreign currency debt and refer to the fourth quarter of the year specified.

f. Data refer to an average for 1996 and 1997, per capita of the donor country.

g. Data refer to Belgium and Luxembourg.

h. Data refer to net official aid.

i. Data refer to 1996.

j. Data refer to net ODA receipts.

Source: Columns 1 and 2: calculated on the basis of data from UNCTAD 1999; columns 3-6 World Bank 1999b, column 7 OECD 1999a and 1999b, columns 8 and 9 calculated on the basis of data from OECD 1999a and 1999b, UN 1998h and World Bank 1999b; columns 10-12: World Bank 1999b; column 13: Standard & Poor's 1999.

A second Section Secti	Internationa depart		tel	Main ephone lines	Telev	risions		Fax chines		sonal puters	Internet hosts
HDI rank	Thousands 1996	Index (1985 = 100) 1996	Per 1,000 people 1996	Index (1990 = 100): 1996	Per 1,000		Per 1,000 people 1996	Index (1990 = 100): 1996	Per 1,000		per 1,000
High human development	433,035 T	284	502	132	595	123	44.6	395	204.5	254	34.50
1 Canada	18,973	144	602	118	709 b	124 5	26.7	267	243.6	270	53.50
2 Norway	3,085	517	555	114	569	140	44	0	284.5	4.	71.80
United States	50,763 b	146 b	640	125	806 b	110 b	64.6 b	334 b	362.4	178	88.90
4 Japan	16,695	337	489	113	700	117	113.7	210	128.0	221	11,00
5 Belgium	5,645	85	465	121	464 b	106 b	18.7	271	167,3	194	16.00
6 Sweden	6,582	120	682	103	476 b	105 b	50.9	265			35.10
7 Australia	2,732	181	519	122	666	137	26.3 b	170 b	214.9 311.3	193 223	42.70
8 Netherlands	10,261 b	153 b	543	121	495 b	106 b					
9 Iceland	190	198	576	119	447 b	148 b	32.3 b	200 b	232.0 205.4 <sup>b</sup>	257 550 b	34.60
10 United Kingdom	41,873 b	196 194 b	528		612 b		30.8 b	740 h			78.70
to office Kingooni	41,0/3	194 "	340	121		144 b	30.0	240 b	192.6	238	23.30
11 France	18,151	206	564	117	598 b	114 b	32.7 b	328 b	150.7	220	7.87
12 Switzerland	10,860	128	640	115	493	128	29.2	249	408.5	91	27,90
13 Finland	4,918	1,002	549	105	605	126	34.9	239	195.2	200	108.00
14 Germany	76,100	169	538	138	493	106	22.0	259	233.2	292	14.90
15 Denmark	4,955 b	155 b	618	112	533 b	102 b	47.6 b	250 b	304.1	271	17.90
16 Austria	12,683 b	255 b	469	117	496	110	35.4 b	335 b	148,9	251	18.40
17 Luxembourg			592	133	628	196	36.3	429	11015	24	16.60
18 New Zealand	920 b	243 b	499	121	517	123	18.1 b	232 b	266.1	84	49.70
19 Italy	15,991 6	173 b	440	113	436 b	103 b	31.4 b	1,056 b	92.3	252	5.75
20 Ireland	2,000 b	17.0	395	141	469	161	D-11-V	.1020	170.4	161	12.80
21 Spain	12,644 b	222 b	392	122	509	129	17.8	485	94.2	336	6.26
22 Singapore	3,305	628	513	148	361	107	29.6	271	216.8	84	15.10
23 Israel	2,259 %	408 b	441	156	300 p	139 b	24.7 b	400 b	116.3	84	14.20
24 Hong Kong, China (SAR)	3,445	304	547	139	388	158	49.8	283	150.5	46	20.50
25 Brunei Darussalam	300	333	263	225	417	202	7.0 b	175 9	9.0	40	2.41
26 Cyprus	360 b	243 b	485	149	146	105	8.6	91	40.9 b	600 b	5,89
27 Greece	1,620 b	147 b	509	135	442 b	235 b	3.8	435	35.3	211	3.89
28 Portugal	2,358	1,275	375	157	367	201	5.0 b	476 b	67.4	261	4.74
29 Barbados	-,	44	370	134	287 b	110 b	6.8 b	137 b	57.5 b	8.7	5.44
30 Korea, Rep. of	4,649	961	430	148	326	165	8.9 b	174 b	131,7	376	4.27
	1,0.0				233 b	114 b					1.96
31 Bahamas		4.70	315	128		71	16.0	412	80.6 b	600 b	3.00
32 Malta	180	170	483	141	497		8.9	452	47.8 b		9.85
33 Slovenia	17 1	ann h	333	157	375 b	1.40	1.8 5	439 b	45.1	433	2.07
34 Chile	1,070 b	193 b	156	261	277	148 109 b	23.7		74.1	1,389	3.98
35 Kuwait	51	44	232	118	373 b	109 -		44	7%1	1,303	
36 Czech Republic	48,614	61	273	174	406 b	41	7.7	1,746	67.9	10	6.73
37 Bahrain	**	10	241	154	429	124	10.6	226	66.8	10	0.62
38 Antigua and Barbuda		ba .	423	175	412 b	117 b	12.9	243	10	1.7	3,69
39 Argentina	3,550 b	203 b	174	198	345 b	148 b	1.7	400	34.1	86	1.75
40 Uruguay	- man	44	209	161	305 b	81 b	3.5 <sup>b</sup>	84	22.0 b	8.9	5.02
41 Qatar			239	145	538	158	18.6	1,095	62.7	A.C	0.09
42 Slovakia	210	34	232	175	384	**	10,3	2,203	186.1	50	2.65
	318	14	308	186	282	386	18.8	289	66.7	6.6	6.07
43 United Arab Emirates 44 Poland	44 712	1,070	169	198	418	144	1.4 b	944 b	36.2	560	2.57
45 Costa Rica	44,713 273 <sup>b</sup>	165 b	155	187	221	121	89	**	40	14	0.85
Medium human development			54	432	182	200	0.7	1,167	7.2	**	0.24
46 Trinidad and Tobago	120,037 T	97 1	168	133	318 b	107 b	1.6	116	19.2 5		3.13
47 Hungary	12,064	218	261	267	442 b	105 b	4.4 b	464 b	44.1	**	8.20
48 Venezuela	534 0	154 b	117	179	180 b	125 b	1.1 b		21.1	.,	0.63
49 Panama	188	186	122	151	229 b	153 b		**	*4	**	0.86
50 Mexico		330	95	165	193 b	143 b	2.4 b	367 b	29.0	84	0.92
20 INEXICO	9,001	330	3.3	120							V.00

## A1.3 Information flows

		International tourism departures		tek	Vlain ephone lines	Telev	risions	Fa	ix nines	Pers	Internet hosts	
		Thousands (19	Index	Per 1,000		Per 1,000		Per 1,000 people 1996	Index 1990 = 100) 4 1996	Per 1,000 people 1996	Index (1990 = 100) 1996	per 1,000 people 1998
HDI rar	lK	1,550										
				382	161	244 <sup>b</sup>	111.5	11.0	9.7	63	64	0.17 0.14
	Saint Kitts and Nevis	40	99	243	159	<b>\$</b> .00	40	2.7	180	46	80	1.23
	Grenada	wh	**	264	161	183	260	5.6	180	676	н	13.20
	Dominica	217	80	299	137	449	122	8.8 b	14	6.7 b	417	1.34
	Estonia	217	84	309	169	267	117	10.1	1,363	20.9	45	
55	Croatia				238	228	178	5.0 b	250 b	42.8	66	2.09
56	Malaysia	20,642 h	1,124 b	183	192	185	192	3.6	402	23.3	94	0.52
57	Colombia	1,073	164	118	106	199	100	64	49	00	**	0.01
58	3 Cuba	55	550	32 162	331	219 1	138 b	22.0	94	31.9 b	900 p	0.34
	Mauritius	120	86	208	135	292 b	109 b	0.9 b	61	44	14	0.07
60	) Belarus	703	day				con	3.8 b	198 1	nh.	11	0.17
6	î Fiji	67	558	88	165	94	682	1.5	150	6.5 b	10	2.87
	2 Lithuania	2,864	40	268	127	376	107	1.8 6	14	29.8 <sup>t</sup>		0.81
	3 Bulgaria	3,006	564	313	122	361	136 1 <del>6</del> 4	1.9	400		94	0.34
	4 Suriname	90 p	170 b	132	155	208	178			gp	44	(,)
	5 Libyan Arab Jamahinya	185 b	ph	68	173	143	1/0	46				0.60
		31 b	344 b	196	171	191	290	8.5	235	16.7	0.0	0.03
	6 Seychelles	1,845	339	70	317	167	169	2.1	1,977	16.7	1,200 5	0.62
	7 Thailand	5,737 b	499 b	140	134	226	113	0.9 b	519 <sup>b</sup>	5.31		0.46
	8 Romania	91.00		149	154	355	123	89	m/s	24.3	41	
	9 Lebanon	14	40	50	201	45	121	10	10	46	60	**
	O Samoa (Western)			175	125	386	106	0.4	19	23.7	01	1.05
	71 Russian Federation	21,331 b	200	73	175	148 6		01	91	3.9	b	0.21
	72 Ecuador	279	208	170	129	170 b		1.2	10	46	64	0.21
7	73 Macedonia, TFYR	. 700	98	298	119	598	151	0.3 b	01	7.9	b	3.40
7	74 Latvia	1,798	tin .	171	148	234 <sup>t</sup>		13.3	40	91	W II	0.03
	75 Saint Vincent and the Grenadine	\$ **	00					0.2		41		0.14
	76 Kazakhstan	40	19	116	144	275 1		0.7	500 b	9.3	670	0.21
	77 Philippines	1,400 5	185 5	25	293	125	300 118 b	8.4		37.2		0.01
	78 Saudi Arabia	40	44	106	162	263	148	2.2	389	18.4		1.04
	79 Brazil	2,943	308	96	161	289	163	0.6		5.9		0.15
	80 Peru	508 b	360 b	60	254	142		0.0	0			0.25
	81 Saint Lucia	40	da	235	199	301		80	0	4.6		0.23
	82 Jamaica		6.0	142	335	326	254	40	99	4.6 27.8		2.26
	83 Belize	94	**	133	171	180	129	44	U			0.15
	84 Paraguay	418	44	36		144				4		0.26
	85 Georgia	e)t	n n	105	105	474	b 232 b	40			11	
		4,261	236	224	208	309	152	1.6	311	13.	3 440	0.54
	86 Turkey			154		217			117		16	0.16
}	87 Armenia	175	9.6	83		84	113	0.3				0.63
	88 Dominican Republic		##	86		591	118	2.5	419	10.		0.30
	89 Oman	494	207	14		82	250	44		3.	3 2,000	0.04
	90 Sri Lanka	737	200			341	103	(.)	=4	5.	6 b	0.43
	91 Ukraine	**	po	181		190					,, 14	0.01
	92 Uzbekistan	64	56 A M TO	67		39		14.3				0.34
	93 Maldives	32	457	63				7.3		7.		0.10
	94 Jordan	1,141	141	60		164				32.		(.)
	95 Iran, Islamic Rep. of	1,000	102	95	265			gi				0.07
	96 Turkmenistan	44	64	74	154	163	b 105 t	**	. 14		м — —	0.04
		42		75	109	0-4						0.02
	97 Kyrgyzstan	5,061	de	45		252		0.2	b 688	3.		0.02
	98 China	27001	94	60	386	42		81	84			0.03
	99 Guyana	16	65	17		161	211	**	100		04 64	0.00
T.	00 Albania											

## A1.3 Information flows

		International departu			ephone lines	Tele	visions		Fax chines		sonal puters	Internet
HDI rai	nk	Thousands (	Index 1985 = 100) 1996	Per 1,000		Per 1,000		Per 1,000		Per 1,000		per 1,000 people 1998
101	South Africa	2,775	544	100	128	123	141	2.4 b	65	37.7		3.82
102	Tunisia	1,778 b	247 b	64	193	156 b	215 b	3.1	1,120	6.7 6	286 b	0.01
	Azerbaijan	80	н	85	104	212	114	45	0.0	11		0.04
	Moldova, Rep. of	71 b	40	140	128	307	100	0.1	1,620	2.6	44	0.15
105	Indonesia	1,782 b	470 b	21	393	232	435	0.4 b	567 b	4.8	48	0.10
106	Cape Verde	db	**	64	306	45	1,800	2.5	49	44	м	(.)
	El Salvador	348 b	93 b	56	260	250	305	27	41	de	44	0.02
	Tajikistan	40	11	42	103	279	165	0.3	69	16	00	0.01
	Algeria	1,810 b	63 b	44	161	68	115	0.2	388	3.4	400	(.)
110	Viet Nam	ee	20	16	1,204	180	519	0.3	3,960	3.3	0.0	(.)
111	Syrian Arab Republic	2,485 b	390 p	82	242	91 b	176 b	1.4	46	1.4	eb.	(.)
112	Bolivia	258 b	14	43	178	202 b	200 b	64	44	20	11	0.09
113	Swaziland	44	**	22	151	96 b	600 b	1.3	352		92	0.47
114	Honduras	150 b	115 b	31	216	80 b	122 b	14	Av	н	11	0.04
115	Namibia	01	**	54	161	29 b	150 b	**	40	12.7		0.39
116	Vanuatu	10 0	333 b	26	172	13	169	3.3 6				0.27
	Guatemala	333	218	31	180	122 b	274 b	41	10	2.8 b	9 h 6 h	0.92
118	Solomon Islands		**	18	165	7.1	- T- T-	2.1 b	626 b			0.06
119	Mongolia	88	**	39	139	63	108	2.3	11	49	44	0.01
	Egypt	2,812	167	50	189	126 b	130 b		41	5.8	96	0.05
	Nicaragua	282		26	240	170 b	292 b					
	Botswana	460	767	48	274	27	201	2.3	416	6.7	16	0.17 0.41
	São Tomé and Principe			20 b	114 b	165 b		1.3 b			19	
	Gabon	44	nà	32	169	76 b	233 b	0.5	263	6,3	89	0.02
125		200 b	125 b	33	100	78 b	123 5				**	
	,						140	17	19	4 = 5	**	
	Morocco	1,212	221	46	310	47 h	250 h	0.5	44 200 h	1.7 b	98	0.02
	Lesotho	89	0.0	9 1	144 b	13 b	250 b	0.3 %	228 b	B+	61	0.01
	Myanmar Papua New Guinea	es h	nd.	4	255	7	270	(.)	1,006	149	19	0.04
	Zimbabwe	51 b 256 b	111 5	11 15	156 141	4 29 <sup>b</sup>	183 107 b	0.4 b	276 b	6.7	4.000	0.01
		Z30 °	111.						2/0 -	0./	4,000	0.07
	Equatorial Guinea	ns .	10	9	282	98	1,333	0.2 6	89	0.0	8.6	to th
132		3,056 b	154 b	15	287	64	222	0.1 b	1,400 b	1.5	44	0.01
	Ghana	da	âu	4	176	41 h	311 6	0.3 в	260 b	1.2 5	2,747 b	0.02
	Carneroon	W/F	86	5	175	PE	44	**	69	1.5 b	86	(.)
135	Congo	wa wa	tu	8	135	7	154	119	10		44	(.)
	Kenya	295 b	40	8	149	19 b	141 b	0.1 b	190 b	1.6	625	0.04
	Cambodia	31	**	1	161	9	132	0.0	44	84	79	0.01
	Pakistan	14	40	18	282	24	156	1.2 b	6,913 b	1.2 b	1,033 b	0.02
139	Comoros	46	48	8	153	4	231	44	89	èu	*1	0.02
Low hu	man development	a4	56	4	144	36	538	0.2	50		н	(.)
140	ao People's Dem, Rep.	44	200	6	380	10	162	20	**	1.1	86	(.)
	Congo, Dem. Rep. of the	22		1	106	41 b	4,500 b	0.15	94	#1	41	117
142 5		88	H	4	160	80 b	124 b	0,3	110	0.7	48	(.)
143 1		**	**	6	229	14	273	3.8	4,776	44	15	0.02
144 1		70 b	103 h	5	197	4	226	40	59	40	10	0.01
	Bhutan	410	194	10	325	19	**	1.7	99	40	40	(.)
	ligeria	50 b	59 b	4 b	140 b	55 b	174 b		99			(,)
	Madagascar	38	158	3	125		**	F4 69	24	40	26	(.)
148 )				13	164	278 b	135 b	0.2 b	358 b	40		(,)
		411	15	4	174	82	664	1.7	1,343	5.3		0.01
149 k												
149 M	langladesh	935	537	3	131	7	160	(,) b	40	44	19	(.)

A1.3 Information flows

		International tourism departures		Main telephone lines		risions		Fax chines	Pers	internet hosts	
HDI rank	Thousands	Index (1985 = 100) 1996	Per 1,000 people 1996	Index (1990 = 100) <sup>4</sup> 1996	Per 1,000 people 1996	Index (1990 - 100) 1996	Per 1,000 people 1996	Index (1990 = 100) <sup>3</sup> 1996	Per 1,000 people 1996	Index (1990 = 100) 1996	per 1,000 * people 1998
151 Zambia 152 Haiti 153 Senegal 154 Côte d'Ivoire 155 Benin	5 415 b	8 A 4 A 8 A 8 A 8 A 8 A	9 8 <sup>b</sup> 11 9	120 133 <sup>b</sup> 214 178 221	80 5 b 38 b 58 73 b	. 264 117 b 121 b 117 533 b	0.1	141     739	7.2 b	333 b	0.03 0.02 0.04 0.02
156 Tanzania, U. Rep. of 157 Djibouti 158 Uganda 159 Malawi 160 Angola	148	463	3 13 2 4 5	127 143 172 133 75	73 26 51 b	196 292  965 °	0.1 0.1 0.1	69 430 349	6.9 b 0.5	48 48 46 48	0.02
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic	7.6 9 9 60 60	* 42	2 1 19 	143 149 346 	8 b 2  5	133 b 150  131	0.1 0.0 1.0	125 243 577	0.3	40 H 10 D 10 D	(.)
166 Mali 167 Eritrea 168 Guinea-Bissau 169 Mozambique 170 Burundi	35	ab an an ab	2 5 7 3 2	191  133 126 191	11 7  3 h 2	150  150 b 240	0.3 0.5 b	667	0.3 5	48 50	(.) (.)
171 Burkina Faso 172 Ethiopia 173 Niger 174 Sierra Leone	133 10 b	29 b	3 3 2 4	210 119 166 129	6 4 <sup>b</sup> 	138 217 <sup>b</sup>  177	(.) (.) b 0.4	663 218 b	0.0 8.6 8.6	01 07 81 44	0.01 (.) (.) (.)

a. Data refer to change in total value.

b. Data refer to 1995.

Source: Columns 1 and 2: World Bank 1998c; columns 3–10: ITU 1997, column 11: Network Wizards 1998a.



# New technologies and the global race for knowledge

The recent great strides in technology present tremendous opportunities for human development—but achieving that potential depends on how technology is used. What is technology's impact on globalization—and globalization's impact on technology?

### THE RACE FOR KNOWLEDGE

With the knowledge economy at the forefront of global interaction, much attention has become focused on new technologies: on information and communications technologies and on biotechnology. Why do these stand out?

For both, there have been fundamental leaps in innovation—not just better ways of doing old things but radically new ways of doing previously unimagined things. The fusion of computing and communications—especially through the Internet—has broken the bounds of cost, time and distance, launching an era of global information networking. In biotechnology the ability to identify and move genetic materials across species types has broken the bounds of nature, creating totally new organisms with enormous but unknown implications.

Both technologies are fuelling globalization, opening new markets and giving rise to new actors. Communications change economic competition, empowerment and culture, inspiring global conversation. Genetic engineering leads to complex links between farmers and indigenous people in biorich countries and the multinational pharmaceutical and agricultural industries.

And both technologies are being shaped by globalization. Writing computer programmes and revealing genetic codes have replaced the search for gold, the conquest of land and the command of machinery as the path to economic

power. Knowledge is the new asset: more than half of the GDP in the major OECD countries is now knowledge-based. With such importance placed on these technologies, the new rules of globalization—liberalization, privatization and tighter intellectual property rights—are shaping their control and use, with many consequences for human development.

Globalization's rules have set off a race to lay claim to knowledge. A global map for the new technologies is being drawn up faster than most people are able to understand the implications—let alone respond to them—and faster than anyone's certainty of the ethical and developmental impacts. The global gap between haves and have-nots, between know and know-nots, is widening:

- In private research agendas money talks louder than need.
- Tightened intellectual property rights keep developing countries out of the knowledge sector.
- Patent laws do not recognize traditional knowledge and systems of ownership.
- The rush and push of commercial interests protect profits, not people, despite the risks in the new technologies.

## THE NEW TECHNOLOGIES—DRIVERS OF GLOBALIZATION

Communications technology sets this era of globalization apart from any other. The Internet, mobile phones and satellite networks have shrunk space and time. Bringing together computers and communications unleashed an unprecedented explosion of ways to communicate at the start of the 1990s. Since then tremendous productivity gains, ever-falling costs and rapidly growing networks of computers have

The global gap between haves and have-nots, between know and know-nots, is widening

transformed the computing and communications sector. If the automobile industry had the same productivity growth, a car today would cost \$3.

In the early 1990s the Internet shifted from a specialized tool of the scientific community to a more user-friendly network transforming social interaction (box 2.1). The number of Internet hosts—computers with a direct connection—rose from less than 100,000 in 1988 to more than 36 million in 1998. More than 143 million people were estimated to be Internet users in mid-1998—and by 2001 that number is expected to be more than 700 million. The Internet is the fastest-growing tool of communication ever (figure 2.1).

Its speed and cost advantages are clear. A 40-page document can be sent from Madagascar to Côte d'Ivoire, for example, by five-day courier for \$75, by 30-minute fax for \$45 or by two-minute email for less than 20 cents—and the email can go to hundreds of people at no extra cost. The choice is easy, if the choice is there.

As the communications revolution turns digital, it promises far-reaching change, globally, nationally and locally. Network communications connect everything to everything else, creating a network society that forces complex and contradictory shifts:

Decentralization versus recentralization.
 Old economic boundaries around nations have given way to new centres of power in the private sector. Multinational corporations have spread their activities around the world thanks

to fast and cheap communications, computeraided design and the standardization of tasks—
yet they can still coordinate and control their
worldwide operations as a unit. They operate
in an arena beyond the jurisdiction and
accountability of any one country, in a global
context that does not yet have an adequate
framework for regulating them. At the same
time network communications have been a
tremendous levelling force for small businesses, enabling them to compete—and succeed—in lucrative niches of the global market.

- Fragmentation versus integration. Cutting across the tradition of national communities is the rise of on-line communities, drawn together by politics, ethnicity, interests, gender, work or social cause. Using the network, they fire up debates and rally instant responses, bringing a new lobbying power to previously silent voices on the global stage. At the same time network communications can forge closer local communities, providing community information and making local government more transparent.
- · Homogenization versus diversity. The global entertainment and media industryspreading opinion, culture and politics—is dominated by a handful of major companies. They control both distribution networks and the programming, including news and films, sent by cable and satellite television into households across the world. At the same time the declining costs of technology have allowed a diversity of voices and cultures to be aired. Multilingual Internet sites and radio programming in local languages reach out to minority groups. Programmes on satellite television bring news and culture from home to many diasporas around the world, including Chinese. Indian and Korean communities.

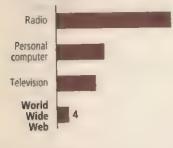
These changes are still in flux. But information and communications technology can be a tremendous force for human development for all those connected—by providing information, enabling empowerment and raising productivity.

### PROVIDING INFORMATION

Developing countries suffer many of the world's most virulent and infectious diseases, yet often have the least access to information

How long before new technologies gain widespread acceptance?

(years from inception to 50 million users)



Source: Economist 1998b.

BOX 2.1

### What is the Internet?

The Internet—a centreless web of computer networks—was funded by the US Department of Defence in the late 1960s as a strategy for communicating during a nuclear attack. Soon it was used to link technically skilled science and university communities. In the early 1990s user-friendly innovations—the creation of the World Wide Web, the distribution of free browsers—turned the arcana of computer language into the simple point and click of a mouse, making the Internet more widely accessible.

At the same time computers became much cheaper, and the network took off.

Even people in the industry did not foresee the revolution. In 1977 a computer industry executive said "there is no reason why anyone would want a computer in their home". Today more than 50 million households in the United States and almost 50 million in Europe have at least one computer at home—and many have two.

The Web began as a tree-for-all, an unregulated domain, with a spirit of explotation and spontaneity. Now that it is of commercial interest, laws and regulations are needed in areas of privacy, liability, censorship, taxation and intellectual property

Source Security Distributing and Marketing 1998, CNBC 1998. Human Development Report Office

for combating them. A US medical library subscribes to around 5,000 journals, but the Nairobi University Medical School Library, long regarded as a flagship centre in East Africa, now receives just 20 journals, compared with 300 a decade ago. In Brazzaville, Congo. the university has only 40 medical books and a dozen journals, all from before 1993. Worse, the library in a large district hospital consists of a single bookshelf filled mostly with novels.

Distance learning, through teleconferencing and, increasingly, the Internet, can bring critical knowledge to information-poor hospitals and schools in developing countries (box 2.2). The potential is great—but technology alone is not a solution. Three cautions:

- Information-poor schools and hospitals are often poorly connected. In South Africa, the best-connected African country, many hospitals and about 75% of schools have no telephone line. Even at the university level, where there is connection, up to 1,000 people can depend on just one terminal. A single computer is not enough: an entire telecommunications infrastructure is needed.
- Equipment is a necessity, but to be part of a solution distance learning requires institutions, skills and good management. Distance learning technology is of little use without relevant course content and strong staff support. Zambia saw an exodus of 7,000 teachers between 1986 and 1990, largely due to a shrinking education budget. Technology cannot work where there are no support staff to help pupils get the best from the network.
- Information is only one of many needs. Email is no substitute for vaccines, and satellites cannot provide clean water. High-profile technology projects risk overshadowing basic priorities. As one health worker in Kathmandu said, "Our priorities are hygiene, sanitation, safe drinking water . . . how is access to the Internet going to change that?" The main constraint is inadequate resources for health and education systems as a whole.

## ENABLING EMPOWERMENT

Communications technology opens new opportunities for small players to enter the global marketplace and political arena.

Giving voice to NGOs. The heat of the moment will not wait for a letter to travel halfway around the world: people's movements must respond fast to have an impact. Instant network communications have brought this power to NGOs, creating a tremendously important countervailing force out of previously silent voices in the global arena.

The rise of these new actors is felt across the board (box 2.3). Socially excluded and minority groups have created cybercommunities to find strength in on-line unity and fight the silence on abuses of their rights. In India DATPERS, the Dalit and Tribal People Electronic Resource Site, exposes the exclusion of 250 million lowcaste people, coordinating international human rights campaigns and keeping the community in touch. During the Indonesian riots of 1998 the ethnic Chinese minority used the Web to draw the attention of the world to their plight.

Women have been innovative in using global communications for their needs. In Mexico City an NGO called Mujer a Mujer-Woman to Woman—emailed contacts in California for assistance when plans for a new textile factory were announced in their community. The women went to meet the management with a bulky portfolio detailing the company's practices, profits and ownership-

BOX 2 2

### HealthNet for better patient care

HealthNet is a networked information service supporting health care workers in more than 30 developing countries, including 22 in Africa It uses radio- and telephone-based computer networks and a low-earth-orbit satellite. Slower than the Internet, it is also cheaper, and accessible in areas with no relecommunications infrastructure.

The network provides summaries of the latest medical research, email connectivity and access to medical libraries Doctors in Central Atrica used it to share information on the 1995 outbreak of the Ebola virus. Burn surgeons in Mozambique, Tanzania and Uganda use it to consult one another on reconstructive surgery techniques. Malaria researchers at a remote site in northern Ghana use the system to commu nicate daily with the London School of Hygiene and Fropical Medicine.

Source Sate Life 1998

HealthNet's communications system also supports ProMED mail, created by the Program for Monitoring Emerging Diseases A moderated, free email list started in 1994, it now has more than 11,000 direct subscribers in more than 135 countries-and thousands more over the Web-who report, discuss and request assistance for outbreaks of emerging infectious diseases. The aim of ProMED is fast reporting-of cholera in the Philippines, E. coli in Japan. Delta hepatitis in the upper Amazon, dengue fever in Malaysia, vellow fever in Switzerland and Ebola in Gabon. The speed of communicationoften faster than official channels, yet just as reliable-translates into faster assistance, earlier warnings to neighbouring countries and greater awareness among health workers.

information impossible to find in Mexico City, and even on the Web, but available in the United States for a small database access fee. And one inspired group used the Internet to build community across the lines in war-torn former Yugoslavia in 1994, creating the Electronic Witches to link women from different ethnic groups. Gathering at Internet-linked computers around the country, often in universities, groups of women sent messages to one another, sharing their concerns, their grief over the bombing of the city of Tuzla and their survival strategies. One message advised that burning just one running shoe would be enough to bake a loaf of bread.

Creating commerce for small businesses. Telephone, email and the Internet give small businesses access to markets and bring muchneeded savings in cost and time. A study in Ghana found that workers in small-scale industries without telecommunications can waste up to half their work time travelling from place to place.

Starting from a small base, electronic commerce is booming. The market was valued at

\$2.6 billion in 1996, and by 2002 it is expected to be more than \$300 billion, promising to transform the way business is done around the world. The potential is not limited to companies with sophisticated Websites, or to customers with credit cards and electronic banking. There are many ways of using the Internet to do business—from making contacts and checking prices to displaying goods and entering into contracts. Small businesses everywhere are exploiting the opportunities.

PEOPLink is a fair trade organization selling crafts over the Internet, linking the work of more than 130,000 artisans across 14 countries of Africa, Asia and Latin America. By recording their work with a digital camera, the trading partners can display their products on the Internet and receive orders from around the world.

Tropical Whole Foods, a UK company selling fairly traded dried fruit from cooperatives and small businesses in Burkina Faso. South Africa, Uganda and Zambia, has transformed communications with email. Daily messages are exchanged to pass on business advice and share accounts and production figures, preventing stockpiles and shortages and keeping all partners informed of the current state of trade. In the past such tight coordination would have been possible only for multinational corporations with integrated data networks. Now innovative small businesses can find their niche and compete alongside giants.

Empowering governments of poor countries. In 1990 more than 90% of data on Africa were stored and managed in the United States and Europe, inaccessible to African policy-makers and academics. The Internet is bringing the data back home. Policy-makers can also gain access to international expertise and ongoing debates, strengthening their negotiating positions for a much-needed greater presence in international forums. The Small Islands Developing States Network, SIDSNet, is a forum for its 42 member nations—from Malta and Mauritius to Cuba and Comoros—to share data and experience on common concerns: energy options, sustainable tourism, coastal and marine resources and biodiversity.

**BOX 2.3** 

## Defending Gorbachev, defeating the Multilateral Agreement on Investment—how the Internet made a difference

Leaflets and banners are out. Email and Websites are in—as the new tool of protest movements in this global era. Click, connect and the campaign begins.

• In August 1991 an attempted coup against President Mikhail Gorbachev of the Soviet Union was defeated-a part in this was played by a small but determined network society. Coup leaders seized control of television and radio stations, the traditional communications, to block the sounds of dissent, but they did not think to shut down the telephone network. Russia's fledgling and little-known computer network set to work, supplying information to computer nodes and fax machines across the Soviet Union, broadcasting Boris Yeltsin's declaration of defiance and providing a link between Moscow and the rest of the world. The supply of information galvanized people's resistance and helped prevent the coup from gaining momentum.

• In 1997 the leading countries of the OECD began negotiating an agreement behind closed doors to set up a global framework of rules on investment. The Multilateral Agreement on Investment aimed to prevent governments from favouring domestic investors and to remove restrictions on multinational corporations investing in developing countries-highly sensitive issues. When the proposal was posted on the Internet, a coalition of NGOs-environmental organizations, consumer groups, trade unions and church groups-united forces to question the direction of the debate, gain the attention of the press and expose the agreement's shortcomings. By the end of 1998 there were campaigns against the agreement in more than half the OECD countries participating in the discussions and many more in developing countries. With public pressure putting negotiators in an uncomfortable position, and with disagreement among the players, the negotiations broke down.

Source. Rohozinski 1998, Kobrin 1998.

Informing remote specialists. Isolated academics and scientists can take part in Internet conferences, keeping up to date on discussions and developments in their fields. Contacts made can become technical support groups. which are of tremendous value to remote specialists. By allowing participants to share and discuss papers on-line, Internet conferences can easily involve more than 1,000 people worldwide, without any of the costs of travel.

## RAISING PRODUCTIVITY

With the knowledge sector at the forefront of global economic opportunity, getting into knowledge production can be a fast track to growth. By creating a basic capacity to operate imported technology, countries can progress, climbing the rungs of the ladder, by learning to duplicate, to adapt to their own needs and, finally, to innovate. The Eastern Caribbean has seized the opportunity to step onto the first rung, using its low-cost, semi-skilled labour to export data processing services (box 2.4). In Sweden, too, remote communities have specialized in data processing, airline ticketing and hotel reservations, creating productive employment to keep young people from heading for the cities. India has forged ahead, specializing in software programming for export (figure 2.2). Japan and the first tier of newly industrializing countries have climbed the furthest-they focused their industrial strategies on creating knowledge-intensive industries and have built up strong national capacities in research and development. Indeed, Japan is perhaps the ultimate proof that comparative advantage is not a fixed given, but can be created in the information economy.

## ADDRESSING CENSORSHIP

Many governments recognize the tremendous potential of the Internet and use it to provide public information: from the Indian Ministry of Finance to the Malaysian Ministry of Agriculture, government agencies are using Websites to increase the transparency of their operations. Several countries, however, have attempted to censor and control this popular empowerment. Some monitor Web searches and have blocked access to sites providing foreign news or airing

political criticism. Others have even made use of the Internet a punishable crime.

But censoring the Internet is difficult, ultimately impossible, since it was designed by the US Department of Defence to operate even if under nuclear attack and to hunt for ways around obstacles when access is blocked. Web discussion groups write the equivalent of thousands of broadsheet newspapers every day-an impossible volume to oversee. The Global Internet Liberty Campaign brings together civil liberties groups, journalists and NGOs to persuade national governments not to restrict access to the Internet because of its tremendous potential for human development. Compared with most traditional tools for development, information and communications technologies can reach many more people, go geographically deeper, work faster and at lower cost.

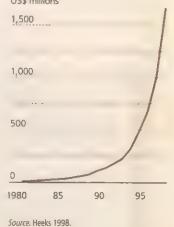
# Access to the network society—who is IN THE LOOP AND ON THE MAP?

The power and importance of communications technology are clear. But is it leading to globalization or polarization in communications?

The information revolution has only just begun on a worldwide scale, and its networks are spreading wider every day. But they are heavily concentrated in a very few countries.

In Cambodia in 1996, there was less than 1 telephone for every 100 people. In Monaco, by

FIGURE 2.2 Software exports from India



BOX 2.4

## Trading places—the rise of data processing

As early as 1980 electronic data entry services were being exported: bulky paper slips were sent by air freight to countries with good computing skills and low wages. The industry was hampered, however, by the unreliability of freight delivery and the costs of volume, time and distance. Electronic commerce has removed those constraints. Claims processing, electronic publishing, secretarial work, airline ticketing and customer support have migrated overseas through the

The Eastern Caribbean seized this opportunity. Combining excellent telecommunications with low wages for semi-

skilled computer work, the islands have attracted many US companies. In 1994 hourly wages for data entry in the United States were \$7-8. Compare that with less than \$1.50 in Dominica, Grenada, Saint Kitts and Nevis, Saint Lucia and Saint

The appeal is heating up the competition among offshore teleports, and the cost of overseas calls is often a determining factor-compare Jamaica's 22 cents a minute with Saint Lucia's \$1.85 in 1994. That is why developing countries need to move into high-tech, low-cost digital communications technology to be competitive in the global knowledge sector.

Source, Schware and rlume 1994.

contrast, there were 99 telephones for every 100 people. A widely accepted measure of basic access to telecommunications is having 1 telephone for every 100 people—a teledensity of 1. Yet as we enter the next century, a quarter of countries still have not achieved even this basic level. Many of those countries are in Sub-Saharan Africa and among the least developed countries (figure 2.3). At the present average speed of telecommunications spread, Côte d'Ivoire and Bhutan would take until 2050 to achieve the teledensity that Germany and Singapore have today.

Beyond basic landline connections, the disparities are even more stark. In mid-1998 industrial countries—home to less than 15% of people—had 88% of Internet users. North America alone—with less than 5% of all people—had more than 50% of Internet users. By contrast, South Asia is home to over 20% of all people but had less than 1% of the world's Internet users (figure 2.4).

Thailand has more cellular phones than the whole of Africa. There are more Internet hosts in Bulgaria than in Sub-Saharan Africa (excluding South Africa). The United States has more computers than the rest of the world combined, and more computers per capita than any other country. Just 55 countries account for 99% of global spending on information technology. Most telephones in developing countries are in the capital city, although most people live in rural areas. Connections are often poor in the rainy season, and the costs of calls are very high. In several African countries average monthly Internet connection and use costs run as high as \$100—compared with \$10 in the United States.

Yet even if telecommunications systems are installed and accessible, without literacy and basic computer skills people will have little access to the network society. In 1995 adult literacy was less than 40% in 16 countries, and primary school enrolments less than 80% in 24 countries. In Benin, for example, more than 60% of the population is illiterate, so the possibilities of expanding access beyond today's 2,000 Internet users are heavily constrained. Even for the newest and most advanced technologies, the most basic and long-standing policy lies at the heart of the solution: investment in education.

Within each region it is only the tip of each society that has stepped into the global loop—worldwide, just 2% of all people. What sets these people apart from the rest? Current access to the Internet runs along the fault lines of national societies, dividing educated from illiterate, men from women, rich from poor, young from old, urban from rural. National Internet surveys in 1998 and 1999 revealed that:

- Income buys access. The average South African user had an income seven times the national average, and 90% of users in Latin America came from upper-income groups. More than 30% of users in the United Kingdom had salaries above \$60,000. Buying a computer would cost the average Bangladeshi more than eight years' income, compared with just one month's wage for the average American.
- Education is a ticket to the network high society. Globally, 30% of users have at least one university degree—in the United Kingdom it is 50%, in China almost 60%, in Mexico 67% and in Ireland almost 70%.
- Men dominate. Women accounted for 38% of users in the United States, 25% in Brazil, 17% in Japan and South Africa, 16% in Russia, only 7% in China and a mere 4% in the Arab States. The trend starts early: in the United States five times as many boys as girls use computers at home, and parents spend twice as much on technology products for their sons as they do for their daughters.
- Youth dominate too. The average age of users in the United States was 36; in China and the United Kingdom, under 30.
- Ethnicity counts. In the United States the difference in use by ethnic groups widened between 1995 and 1998. Disparity exists even among US university students. More than 80% attending elite private colleges used the Internet regularly, compared with just over 40% attending public institutions, where African-American students are more likely to enrol.
- English talks. English is used in almost 80% of Websites and in the common user interfaces—the graphics and instructions. Yet less than 1 in 10 people worldwide speaks the language.

FIGURE 2,3 Teledensity

Telephone mainlines per 100 people



United Arab Emirates



Less than 1:
Haiti 0.8
Kenya 0.8
Sierra Leone 0.4
Bangladesh 0.3
Tanzania, U. Rep. of 0.3
Uganda 0.2
Afghanistan 0.1

Source: ITU 1998

Geographic barriers may have fallen for communications, but a new barrier has emerged, an invisible barrier that, true to its name, is like a world wide web, embracing the connected and silently-almost imperceptibly-excluding the rest. The typical Internet user worldwide is male, under 35 years old, with a college education and high income, urban-based and English-speaking-a member of a very elite minority worldwide. The consequence? The network society is creating parallel communications systems: one for those with income, education and-literally-connections, giving plentiful information at low cost and high speed; the other for those without connections, blocked by high barriers of time, cost and uncertainty and dependent on outdated information. With people in these two systems living and competing side by side, the advantages of connection are overpowering. The voices and concerns of people already living in human poverty-lacking incomes, education and access to public institutions—are being increasingly marginalized. Determined efforts are needed to bring developing countries-and poor people everywhere-into the global conversation.

# MAKING GLOBAL COMMUNICATIONS TRULY GLOBAL

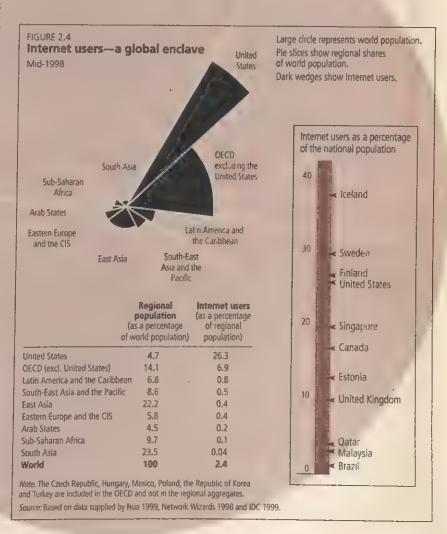
The past decade has proven the tremendous potential of global communications to provide information, enable empowerment and raise productivity. But it has also exposed the risks of dividing and polarizing societies, threatening greater marginalization of those left out and left behind.

What lies in between is proactive policy. The greatest danger is the complacent belief that a profitable and growing industry will solve the problem by itself. But the market alone will make global citizens only of those who can afford it. Fulfilling the potential of global communications for development demands relentless effort in reaching out to extend and enhance the loop. Seven goals on the road to an information society:

- Connectivity—setting up telecommunications and computer networks.
- Community—focusing on group access, not individual ownership.

- Capacity—building human skills for the knowledge society.
- Content—putting local views, news, culture and commerce on the Web.
- Creativity—adapting technology to local needs and constraints.
- Collaboration—devising Internet governance for diverse needs around the world.
- Cash—finding innovative ways to fund the knowledge society.

Connectivity. A telecommunications infrastructure is needed, but the infrastructure costs are immense, and many governments are turning to the private sector. Opening telecommunications and Internet provider services to the market can massively increase connectivity. But schemes are needed to ensure that the market does not focus only on lucrative urban customers. When Senegal privatized telephone services, operators were required under licence to install public telephones in 50% of the rural villages containing



more than 3,000 people by 2000. In the Philippines new mobile phone operators—usually serving an elite market—are also required to install 400,000 landlines—serving poor communities—within five years. Computing hardware and software are needed to transform telephone lines into Internet connections, and policies are needed to promote this. To encourage computer ownership, the governments of Bangladesh and Mauritius, for example, eliminated tariffs and taxes on personal computers.

The satellite revolution promises greater connectivity, since every point on the globe can be reached instantly without a need for expensive land-based infrastructure. User costs are still very high, but with several major satellite networks due to be launched before 2001, com-

petition could bring rapidly falling prices in the

Competition is hard to ensure in the telecommunications industry—especially for local calls, as even the most developed countries have seen. Strong regulation and antitrust laws, well implemented, are needed to ensure that private markets are competitive markets and that public needs are met. This will be a challenge for all countries.

Community access. To bring connectivity to people, community access is key, not individual ownership. The concept of one household, one phone is unrealistic in many developing countries, especially in rural areas and among poor communities everywhere. A

#### BOX 2.5

The Internet is an evolving tool and can be creatively used in many ways. Some countries are at the forefront of innovating to make this technology work for their needs.

Egypt-enriching telecentres

At the end of 1998 there was less than one Internet user for every 1,600 people in Egypt. Connections are increasing daily, but mainly among the wealthy and well educated in urban areas. To reach out to people in poor and remote areas, UNDP has launched three pilot Technology Access Community Centres (TACCs) in the governorate of Sharkeya.

Each TACC telecentre, equipped with Internet connection and many computers, is located in a public building or a local chamber of commerce to ensure that it is accessible to all-individuals, civil society groups, small businesses, low-income communities. But the centres provide far more than walk-in access. They offer training in computer literacy, email and Web searches, Webpage creation, desktop publishing, computer maintenance and technical support. These skills can be used for distance learning, telemedicine, networking and electronic commerce. Future plans include integrating women's health centres into the TACCs. Internet access is initially free to encourage people to explore the potential. Later, low fees will be supplemented by charges on other services: fax, photocopies and training programmes. This is the way forward for telecentres.

# Innovating with the Internet

Estonia—raising the roof

Estonia, among the first of Eastern Europe's transition economies expected to enter the European Union, is wasting no time catching up. Along with economic reform, the country has made great efforts to promote access to the Internet for its 1.4 million citizens. Small countries, often disadvantaged by their size in other areas, can be among the first to create an information society. As President Lennart Meri of Estonia has said, "The Internet is the roof of the world for a small nation."

Public Internet access points are provided throughout the country, even on remote islands in the Baltic Sea. In schools the Tiger Leap Programme, launched in 1996, provides information-based learning systems for all pupils, rapidly modernizing education and creating strong conditions for an open learning environment. Its scope has widened, aiming to create an open and democratic society by providing access to modern communications for all, not just school pupils, city dwellers and the well-off. With few natural resources, Estonia has realized that its wealth is its people and is investing in them for the 21st century.

The country has indeed tiger-leaped ahead of other transition economies in integrating into the information society. More than one in 10 Estonians are now on-line—using the Internet—and Estonia ranks among the top 15 countries in Europe in computers per capita, ahead of France and Italy. Surveys of users show that they use the World Wide Web mainly to find information for work, for school and for

leisure—spending little time playing games or watching videos. Clearly, in Estonia the Internet is becoming a learning tool, not an entertainment centre.

India—reaching the villages

Some of the remotest villages in the world have modern communication. Ironically, it usually brings only satellite television full of images of distant lives, irrelevant to local issues.

The M.S. Swaminathan Research Foundation in South India is trying to change this—to tackle local problems. The Village Information Project in Pondicherry began with an in-depth study of village needs—and only when this was complete did it turn to technology. Reconditioned second-hand computers were donated by Byte by Byte, a Tokyo-based organization that collects discarded equipment from companies such as Reuters and Ford Motors and sends them off for second lives around the world

Even in villages without telephones, the Village Information Project brings people the knowledge they need. Free-standing, solar-powered computers are updated daily with information relayed through radio handsets and cell phones from a regional centre with direct Internet access. The village computer acts as a bulletin board for the availability of medicine in health centres and credit in microfinance schemes, for market prices, transport services and input costs, for warnings of pest, weather and water risks and for educational materials for schoolchildren.

Source: M.S. Swaminathan Research Foundation 1998; Mehta 1999, UNDP 1998b; BMF Gallup Media 1999.

more appropriate approach is to create multimedia community centres—or "telecentres"—in places accessible to those often blocked out of institutions: poor people and communities, women and youth. From Peru to Kazakhstan, basic telecentres have been set up in post offices, community centres, libraries, video shops, police stations and health clinics, providing local community access to telephone and fax services, email and the World Wide Web. But providing access takes more than providing computers. Telecentres need to become hubs for skills training and capacity building. Egypt is leading the way in this approach (box 2.5).

Capacity. Building people's capacity to use the Internet starts in schools. The Costa Rican government has installed computers in rural schools across the country to give all pupils a chance to learn the new skills. In Hungary the ambitious Sulinet (Schoolnet) has enabled students in more than two-thirds of secondary schools to browse the Net from their classrooms. The annual NetDay initiative in the United States has used volunteers to connect more than 140,000 schools at a fraction of the commercial cost. Beyond classroom connections, support staff are essential for on-line learning, and teachers need training. In Finland teachers receive more than a month of training in how to use information technology in the classroom. In Lesotho the Technical Enhanced Learning Institutes in Southern Africa (TELISA) were launched in 1998 to renew regional education with professional development for teachers

Content. The information highway cannot be a one-way street. Websites need to be created locally, adding new voices to the global conversation and making content relevant to communities. The first step is language and culture. The government of Tamil Nadu, India, is promoting keyboard standardization, software interfaces and Websites in Tamil, spoken by 75 million people worldwide. In Estonia the highly effective Tiger Leap Programme is developing educational software to teach the Estonian language and the history of the country (see box 2.5). The Vietnamese community

in California's Silicon Valley uses email to keep culture strong for the worldwide diaspora. As one user said of the discussion group, "Vietnet brought everybody closer. Many ideas, feelings, poems and opinions were exchanged... Many people from faraway states and different continents came to visit."

Local content can enhance community participation and institutional transparency. In India the state government of Andhra Pradesh is setting up a network to connect telecentre access points with government services and offices. The Infoville Project in Villena, Spain, has created a "virtual" town hall by subsidizing access to a community intranet with local information, government services, banking, retail, schools and health services on-line.

Creativity. The context for communications varies greatly around the world, yet solutions have focused on industrial countries. Creativity is needed to adapt the possibilities of technology to the needs of poor countries and poor people. In rural Bolivia most farmers have never seen a computer. but they already have access to the Internet. How? Farmers with crop concerns can give questions to a community leader, who relays the inquiry to the radio station, where it is sent to UNDP's communications centre. The question is then posted on the Internet and answers received are emailed back to the radio station and broadcast. In South India. too, creativity has tailored computer technology to local community needs (see box 2.5).

Collaboration. The Internet has rapidly become not only a global communications tool but a great source of economic potential. Its evolution, at first ad hoc, is being shaped into a system of governance—with rules on domain names, taxation, privacy and protection of intellectual property rights. But governance should not be framed by the United States, the European Union or the OECD alone. Commercial interests may be at stake—but so is the right of access to communications for all people. Internet and telecommunications need global governance framed by global interests.

To bring connectivity to people, community access is key, not individual ownership

#### BOX 2.6

# Preparing for the information age—set the wheels in motion

The importance of building an information society is clear. The question for governments faced with scarce resources is not whether to invest—but how much and where. What are the areas that strengthen a nation's capacity to make the most of information and communications technology? The Information Society Index, prepared by the World Times and the International Data Corporation, gives one way of measuring a country's preparedness, across four types of infrastructure:

- Information—creating the capacity to send and receive information by telephone, television, radio and fax.
- Computer—extending access to computers in schools, workplaces and homes, building networks and using software.
- Internet—expanding the use of the Internet in schools, workplaces and homes and enabling electronic commerce.
- Social—building people's capacity to use information through education, freedom of the press and civil liberty.

For each indicator, the closer a country is to the outside of the wheel, the closer it is

to the best performance yet achieved. A complete wheel would mean the smoothest ride in the information age.

The index has been calculated for the 55 countries, which account for 99% of global information technology spending. This puts the focus on indicators most relevant to industrial countries. An interesting future challenge would be to adapt the index to include indicators more relevant to progress in developing countries. Even in this group of 55 there is great disparity, shown in the range of wheels below.

The United States is the most prepared information economy, but small countries can be early adopters and leaders of the information revolution. Finland, the Netherlands and Singapore have all surpassed many of the traditional industrial economies in coverage and preparedness. The wheels show that there are many dimensions to being prepared for the information age, and each country must tackle its weaknesses.

JAPAN best country's JORDAN BULGARIA 21 INFORMATION SOCIAL COMPUTERS 11 Fax ownership 19 Newspaper readership 5 Personal computers 1 Business Internet use 12 Radio ownership 20 Tertiary enrolment for education use 2 Education Internet use 21 Secondary enrol ment 13 Cable TV subscript on 6 PCs for government 3 Home Internet use and commercial use 14 TV ownership 4 E-commerce spending 7 PCs for name use 15 Cost of phone call 16 Ceriular phone ownership 8 PCs nstalled 9 Netwo ked PCs 17 Teleptione the error rate 10 Software spending 18 le ephone lines installed Source, World Times and IDC 1999.

Cash. There is an urgent need to find the resources to fund the global communications revolution—to ensure that it is truly global. One proposal is a "bit tax"—a very small tax on the amount of data sent through the Internet. The costs for users would be negligible: sending 100 emails a day, each containing a 10-kilobyte document (a very long one), would raise a tax of just 1 cent. Yet with email booming worldwide, the total would be substantial. In Belgium in 1998, such a tax would have yielded \$10 billion. Globally in 1996, it would have yielded \$70 billion—more than total official development assistance that year.

How quickly are different countries preparing for global communications? Many factors are involved, and the race to join the information society has set off at a fast pace. It will determine many of the winners and losers in the globalized world (box 2.6).

# THE NEW RULES OF GLOBALIZATION— SHAPING THE PATH OF TECHNOLOGY

New technologies promise many advances for human development. Gene therapy could tackle diseases such as cystic fibrosis and cancer. Genetically altered crops could reduce the need to use polluting herbicides and pesticides. The information and communications industry could provide entry points for developing countries into producing for the knowledge-intensive economy. Yet the path of technology is not predetermined—many avenues of research could be pursued, but only a few are followed.

Technology may be globalizing communications, but globalization—and its new rules—is also shaping the path of new technologies. Over the past 20 years increasing privatization of research and development, ever-growing liberalization of markets and the tightening of intellectual property rights have set off a race to lay claim to knowledge, and this has changed technology's path. The risk is that poor people's and poor countries' interests are being left on the sidelines.

### PRIVATIZATION OF RESEARCH

The knowledge sector is a fast-growing area of the global economy: between 1980 and 1994 the share of high-technology products in international trade doubled, from 12% to 24%. Yet in the 1990s, with many governments facing a squeeze on budgets, the proportion of public funding for research and development in science and technology has fallen around the world, to be replaced by private industry. Research and development has also shifted away from developing countries. Their share in the global total dropped from 6% in the mid-1980s to 4% in the mid-1990s.

The trend has been particularly strong in agriculture and biotechnology. In the early 1980s most crop and seed development in the United States was under public research. Patents were rarely sought and rarely enforced: saving and trading of seed was commonplace. This changed when new legislation encouraged closer cooperation with the private sector, enabling companies to profit from products developed largely with public funds. The intellectual property of public and university research was increasingly passed over to private industry: the portion of public sector patents in biotechnology sold under exclusive licence to the private sector rose from just 6% in 1981 to more than 40% by 1990.

With increasing privatization of research and rising costs for risky innovations, the 1990s have seen a boom in the number and value of mergers and acquisitions. The biggest year ever was 1998, especially for biotechnology, telecommunications and computing industries (figure 2.5). As a result economic power has consolidated among a very few players. By 1995 the world's top 20 information and communications corporations had combined revenue of more than \$1 trillion—equivalent to the GDP of the United Kingdom.

In biotechnology genetic engineering underlies the new direction of pharmaceuticals, food, chemicals, cosmetics, energy and seeds. This is blurring the boundaries between the sectors, creating mega "life sciences" corporations. Indeed, across all knowledge-intensive industries, a select group of corporations controls ever-growing shares of the global market. In 1998, how much of the global market did the top 10 corporations in each industry control? In commercial seed, 32% of a \$23 billion industry; in pharmaceuticals, 35% of

\$297 billion; in veterinary medicine, 60% of \$17 billion; in computers, almost 70% of \$334 billion; in pesticides, 85% of \$31 billion; and in telecommunications, more than 86% of \$262 billion. The lesson is clear: privatization does not automatically lead to competition.

# TIGHTER INTELLECTUAL PROPERTY RIGHTS

At the creation of the World Trade Organization in 1994, the most far-reaching multilateral agreement on intellectual property was drawn up: Trade-Related Aspects of Intellectual Property Rights, or TRIPS (box 2.7).

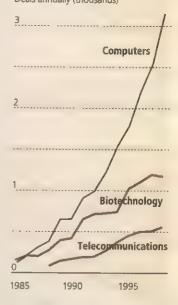
The past two decades have seen a huge rise in patent claims. The World Intellectual Property Organization's Patent Cooperation Treaty accepts a single international application valid in many countries. The number of applications made annually soared from less than 3,000 in 1979 to more than 54,000 in 1997—and those applications in 1997 were equivalent to nearly 3.5 million individual national applications (figure 2.6). According to the director of research and development at one of the largest biotechnology corporations, "the most important publications for our researchers are not chemistry journals but patent office journals around the world."

Yet the claims to intellectual property are concentrated among very few countries.

FIGURE 2.5

Worldwide mergers and acquisitions

Deals annually (thousands)



Total value of mergers and acquisitions US\$ bilkons

Sector	1988	1998
Computers	21,4	246.7
Biotechnology	9.3	172.4
Felecommunications	6.8	265.8

Source: Securities Data Company 1999.

BOX 2.7

#### What is TRIPS?

Intellectual property issues were first raised under the General Agreement on Tariffs and Trade in 1986 to clamp down on trade in counterfeit goods. With many industrial countries interested in tying negotiations on trade liberalization to tighter control over technology, this narrow focus was soon extended to include many other areas. The agreement on Trade-Related Aspects of Intellectual Property Rights, or TRIPS, came into effect in 1995 under the World Trade Organization (WTO). It affects such diverse areas as computer programming and circuit design, pharmaceuticals and transgenic crops.

Although each country implements intellectual property rights law at the national level, the TRIPS agreement Source: South Centre 1997.

imposes minimum standards on patents, copyright, trademarks and trade secrets. These standards are derived from the legislation of industrial countries, applying the form and level of protection of the industrial world to all WTO members. This is far tighter than existing legislation in most developing countries and often conflicts with their national interests and needs. Developing countries have been given until 2000 to adjust their laws, least developed countries until 2005.

The WTO's TRIPS agreement can be enforced through the integrated dispute settlement system. This effectively means that if a country does not fulfil its intellectual property rights obligations, trade sanctions can be applied against it—a serious threat.

FIGURE 2.6

The race for patents

Annual applications under World Intellectual Property Organization's Patent Cooperation Treaty (thousands)

50

40

20

10

90

1980

Source WIPO 1998.

95

Industrial countries hold 97% of all patents worldwide. In 1995 more than half of global royalties and licensing fees were paid to the United States, mostly from Japan, the United Kingdom, France, Germany and the Netherlands. Indeed, in 1993 just 10 countries accounted for 84% of global research and development, controlled 95% of the US patents of the past two decades and captured more than 90% of cross-border royalties and licensing fees-and 70% of global royalty and licensing fee payments were between parent and affiliate in multinational corporations. By contrast, the use of intellectual property rights is alien to many developing countries. More than 80% of the patents that have been granted in developing countries belong to residents of industrial countries.

# IMPACTS ON PEOPLE

These new rules of globalization—privatization, liberalization and tighter intellectual property rights—are shaping the path of technology, creating new risks of marginalization and vulnerability:

- In defining research agendas, money talks louder than need—cosmetic drugs and slow-ripening tomatoes come higher on the list than a vaccine against malaria or drought-resistant crops for marginal lands. Tighter control of innovation in the hands of multinational corporations ignores the needs of millions. From new drugs to better seeds for food crops, the best of the new technologies are designed and priced for those who can pay. For poor people, the technological progress remains far out of reach.
- Tighter intellectual property rights raise the price of technology transfer, and risk blocking developing countries out of the dynamic knowledge sector in areas such as computer software and generic drugs.
- New patent laws pay scant attention to the knowledge of indigenous people, leaving it vulnerable to claim by others. These laws ignore cultural diversity in creating and sharing innovations—and diversity in views on what can and should be owned, from plant varieties to human life. The result is a silent theft of centuries of knowledge from developing to developed countries.

 Despite the risks of genetic engineering, the rush and push of commercial interests are putting profits before people.

PRIVATE RESEARCH AGENDAS—MONEY TALKS LOUDER THAN NEED

Genetic engineering is largely the product of private commercial research in industrial countries. The top five biotechnology firms, based in the United States and Europe, control more than 95% of gene transfer patents. It can take 10 years and \$300 million to create a new commercial product-so, not surprisingly, companies want to protect their innovations and ensure that they reap profits. But this approach focuses research on high-income markets. In 1998, of the 27 million hectares of land under transgenic-genetically altered-crops, more than 95% was in North America and Europe. Research has focused on the wants of rich farmers and consumers: tomatoes with longer shelf lives or herbicide-resistant soyabeans and yellow maize to be used mainly for poultry feed. Seed varieties are engineered to be suitable for mechanized mass production with labour-saving techniques, designed for industrial and intensive farming conditions.

Far less time and money have been given to the needs of farmers in developing countries: increasing nutritional value, disease resistance and robustness. Similarly, research is lacking on water-saving plant varieties for smallholders. Instead, many major corporations are seeking patents for the innovation of linking genetic characteristics to chemical triggers. What for? One likely use is to create seeds that will germinate and bear fruit only when used with the company's brand of fertilizers or herbicidesincreasing sales through dependency on inputs. With agrochemical, plant breeding and seed distribution companies merging into megacorporations, farming communities risk becoming caught in a chain of biological and licensing controls.

Local plant breeding is essential for adapting seeds to the ecosystem and maintaining biodiversity. The 1.4 billion rural people relying on farm-saved seed could see their interests marginalized. With increasing control and homogenization of the market by major agribusinesses,

the competitiveness of alternative varieties and the scope for producing alternative crops will most likely decline, depleting local genetic diversity.

In the pharmaceutical industry private interests cannot be expected to meet all public needs. Almost all research on diseases in developing countries has been done by international organizations or the military in industrial countries. Of the annual health-related research and development worldwide, only 0.2% goes for pneumonia, diarrhoeal diseases and tuberculosis-yet these account for 18% of the global disease burden. In the United States between 1981 and 1991, less than 5% of drugs introduced by the top 25 companies were therapeutic advances. Some 70% of drugs with therapeutic gain were produced with government involvement. Vaccines are the most costeffective technologies known in health care. preventing illness in a one-time dose. But they generate smaller profits and have higher potential liabilities than treatments used repeatedly. As a result a consortium of US pharmaceutical companies has united to develop antiviral agents against HIV, but not to produce a vaccine against AIDS.

TIGHTER INTELLECTUAL PROPERTY RIGHTS
ARE BLOCKING DEVELOPING COUNTRIES
FROM THE KNOWLEDGE SECTOR

The costs of industrial catch-up for Japan and the first-tier newly industrializing economies in East Asia were greatly reduced by the weak enforcement of intellectual property rights in the region before the mid-1980s. Tighter control under the TRIPS agreement has closed off old opportunities and increased the costs of access to new technologies.

In the pharmaceutical industry, prior to the TRIPS agreement, countries such as China, Egypt and India allowed patents on pharmaceutical processes but not final products. This approach supported the development of domestic industries using different methods to produce mainly generic drugs, similar to but far cheaper than the original brand names. The difference is highlighted by contrasting drug prices in Pakistan, where there are patents, to India, where there are none (figure 2.7).

When Glaxo Wellcome launched AZT as an inhibitor of AIDS, it cost \$10,000 per patient each year. As sales increased, the price fell to \$3,000—still far out of reach for most people in developing countries. An Indian company then produced a generic—Zidovir 100—and exported it to Belgium, Tanzania and Uganda at less than half the price. The TRIPS agreement requires 20-year patents on both processes and products, so India and others must change national patent laws, making such opportunities impossible in the future. As gene therapy comes to dominate the pharmaceutical industry, this will significantly limit the industry's potential in developing countries.

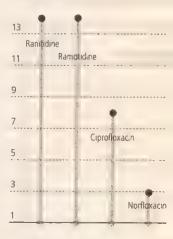
Countries can choose to require patent holders to give licences to competitors-but the process is long and the fees may be prohibitive. Imposing price controls on industry, calculated as a mark-up on costs, is another option, but multinationals often avoid low prices by using loopholes in transfer pricing artificially inflating the cost of inputs transferred from country to country within the multinational's domain. In India multinational companies have sometimes charged 2, 4 or even 10 times the prices they would charge for inputs in Europe and the United States in order to avoid controlled low prices. They have little interest in pricing drugs for the market in developing countries because they are maximizing global, not national, profits and do not want to set a low-price precedent.

In the computer industry, software is one of the fastest-growing areas and can be a way for new countries to get into producing for the knowledge sector. In 1994 the global market for final, packaged software was \$79 billion, of which OECD countries accounted for 94%. With a small but growing number of developing countries entering the competition, it is not surprising that the battle over intellectual property rights for software is a fierce one. Protection is certainly needed: programmes are expensive to develop, while pirating them is cheap and easy. Even before Microsoft launched Windows 95 at \$100, it was on sale on the streets of Beijing for \$9. Many firms have lost billions of dollars of trade in this way. At the same time excessively tight intellectual property rights would eliminate competition and innovation in this industry

FIGURE 2.7

Drug prices and patent costs

Price in Pakistan Index (price in India = 1)



Source: Lanjouw 1997.

underlying global communications. A careful balance needs to be struck.

The TRIPS agreement followed the United States in placing software, like music and novels, under copyright law, with strong and universal protection. The United States has started to grant patents on software in addition to copyright, creating stronger control over programme interfaces and tightening control over the industry. But there is leeway. The TRIPS agreement does not prohibit making copies for reverse engineering—a process of unravelling computer programmes to see how they work, generating ideas and innovation. With programmes such as Word and Excel becoming computing standards, reverse engineering is essential for smaller producers to create software that is compatible and competitive, and it must be protected in future reviews of the agreement. If it were forbidden, the development of competitive products would be drastically limited. And different computers around the world would not be able to interact with one another-defeating the aim of connecting the network society.

PATENT LAWS DO NOT RECOGNIZE TRADITIONAL KNOWLEDGE AND SYSTEMS OF OWNERSHIP

Biodiversity is of great importance to drug development, and developing countries are the source of an estimated 90% of the world's store of biological resources. More than half of the world's most frequently prescribed drugs are derived from plants or synthetic copies of plant chemicals—and this trend is growing. Plant-based drugs are part of standard medical treatment for heart conditions, childhood leukaemia, lymphatic cancer and glaucoma, with a global value over the counter of more than \$40 billion a year.

In the same way that many Arab states benefited from industrialization's thirst for the petroleum that lay beneath their land, so now biorich countries could have the chance to benefit from biotechnology's demand for the rare germ plasm found on their land. Many indigenous communities have a further claim to biotechnology's bounty because they have been the cultivators, researchers and protectors of

their plants—indeed, it is their long-acquired knowledge of nature's potential that is valuable to pharmaceutical companies today. Bioprospectors have for many years taken samples of plant material and documented their traditional medicinal uses. Without the consent of local people, this knowledge has been used to develop highly profitable drugs. In any other situation this would be called industrial espionage—theft of both the genetic materials and the long-acquired knowledge of using them to develop medicines.

The rosy periwinkle found in Madagascar, for example, contains anticancer properties, and drugs developed from it give \$100 million in annual sales to a US-based multinational pharmaceutical company, Eli Lilly—but virtually nothing for Madagascar.

Plant material was once treated as common property, but a landmark US legal case in 1980 awarded a patent on a genetically altered organism, launching the first step in the race to patent life. Yet patent laws were drawn up in 19th-century Europe during the industrial revolution; their legal frameworks have been extended to cover global markets during the information revolution. Three fundamental concerns:

- The inventions born of genetic engineering bring radically new characteristics. Can a framework of property rights first designed to protect industrial machinery really cope fairly and effectively with the complexities of genetically manipulated organisms?
- Scientific research now takes place under a regime based on ownership and control. It rewards research according to short-term profitability, not according to the needs to protect biodiversity, ensure sustainable and ethical use of genetic resources or meet the essential needs of people.
- The attempt to create a global market in property rights imposes one conception of ownership and innovation on a culturally diverse reality, benefiting private industrial research but not public institutes or farming communities (table 2.1).

In 1995 two researchers at the University of Mississippi Medical Center were granted the US patent for using turmeric to heal wounds. But in India this was a long-standing art, common knowledge and practice for thousands of

Developing countries are the source of an estimated 90% of the world's store of biological resources years. To get the patent repealed, the claim had to be backed by written evidence—an ancient Sanskrit text was eventually presented as proof and the patent removed—but this only highlighted the absurd imposition of one culture's systems on another culture's traditions.

As a result of these problems, there has been increasing recognition of the need to protect the knowledge of indigenous people. The Convention on Biological Diversity of 1992 recognizes the need to protect property rights but also the need for companies to gain prior informed consent before conducting research—but this convention is not legally binding until countries translate it into national law, and indigenous communities have often received little attention or protection under national law.

In the absence of legislation, more and more strategic alliances are being struck between pharmaceutical firms and governments or indigenous groups in resource-rich countries. Merck Pharmaceuticals has an agreement with the non-profit National Institute of Biodiversity, INBio, in Costa Rica to pay \$1.1 million for access to 10,000 plant and insect samples. If any leads to a successful drug, Costa Rica would receive a 2–3% royalty share, yielding a possible \$20–30 million each year.

From Australia and Ecuador to Thailand and Uganda, bioprospectors have made agreements with local communities, taking out patents based on local knowledge in exchange for a share of profits. Royalties promised are commonly 1–2%, though sometimes as low as 0.1% and as high as 3–4%. Even if just a 2% royalty were charged on genetic resources that had been developed by local innovators in the South, it is estimated that the North would owe more than \$300 million in unpaid royalties for farmers' crop seeds and more than \$5 billion in unpaid royalties for medicinal plants. But this rate is low because negotiations are on an uneven footing. When one company wanted to bioprospect in Yellowstone National Park, the United States Park Service secured a 10% royalty share. Negotiating power is everything.

THE RUSH AND PUSH OF COMMERCIAL
INTERESTS PROTECT PROFITS, NOT PEOPLE—
DESPITE THE RISKS IN THE NEW
TECHNOLOGIES

Genetically modified foods come from plants to which extra genes have been introduced to add qualities such as resistance to pests or frost. The genes are taken from other plants, animals or micro-organisms and are often introduced by attaching them to a virus. There are several risks in this process. Genes introduced to make plants tolerant to herbicides and insecticides could escape in pollen and create highly resilient weeds that displace other wild plants and change the balance of the ecosystem. Similarly, over time powerful new strains of insects

More strategic alliances
are being struck between
pharmaceutical firms and
the governments or
indigenous groups in
resource-rich countries

Issue	Multinational corporations	Public research institutes	Farming communities
Under intellectual property law the inventor must be named.	Employee contracts ensure that inventors surrender most or all rights to the company.	Employee contracts can ensure that inventors surrender most or all rights to the institute.	The concept of an individual inventor is alien to many communities and can cause conflict.
The criteria for patents include novelty and an inventive step.	Companies' focus on micro- improvements usually manages to meet the criteria.	Focused more on research, institutes often cannot meet the strict criteria.	Since these criteria have little to do with the process of community invention, they are hard to meet.
Lega. advice from h ghly specialized patent lawyers is expensive.	Companies have in-house legal departments and ready access to expert consultants.	Institutes have little in-house capacity and imited access to expensive expertise.	Communities usually cannot afford or obtain either basic or expert advice.
Patent holders must defend their patents under civil aw.	Companies employ aggressive tactics, using patent claims to stake out their market turf.	Inst tutes often lack strong patent defence and give in to political pressure not to challenge the private sector.	Communities find it almost impossible to monitor—let alo confront—patent infringemen around the world.

Source: RAFI 1998.

Policies are urgently needed to turn the advances in the new technologies into advances for all of humankind

and weeds resistant to herbicides and insecticides could develop. New toxins could have damaging effects in the food chain, and viruses could escape from virus-containing crops. The impacts could be particularly serious in developing countries where biodiversity is high and essential for sustainable agriculture. Yet it can take 10–15 years before environmental damage becomes evident. Despite the promised commercial gains, many developing countries are extremely concerned about the potential impact (box 2.8).

The growing use of transgenic crops raises important issues—about the safety of transferring organisms into new environments, questions of liability for damage that are not covered under international law and the need for far more transparency in information. Responses to these issues have varied dramatically.

The United States, exporting \$50 billion of agricultural products a year and planting transgenic varieties for 25–45% of its major crops, claims that strict safety rules will impede billions of dollars of global exports annually in seed, grains and even products like breakfast cereals and cotton clothing. But consumer movements and farmers have often reacted strongly to transgenic crops, pulling them out of fields and rejecting them in shops. Ten years ago the risk of humans being infected by bovine spongiform encephalopathy (BSE, or mad cow disease) was said to be negligible—but it happened. Once

bitten, twice shy, European consumers especially are now questioning altered foods. Science is moving so fast and so little information has been shared, it is not surprising that people fear that technology is out of control.

With new technologies, profits should not come first—but nor should panic. Precaution is needed, and this was the motivation for the Biosafety Protocol under the Convention on Biological Diversity. The protocol would require exports of genetically manipulated organisms to be approved in advance by the importing country. The negotiations collapsed in February 1999 after the main exporting countries—the United States, Canada, Australia, Argentina, Uruguay and Chile—fell into open disagreement with the European Union and many developing countries. Biosafety is still critical—all the more so as transgenic crops become more widespread.

# THE NEED TO RESHAPE TECHNOLOGY'S PATH

Policies are urgently needed to turn the advances in the new technologies into advances for all of humankind—and to prevent the rules of globalization from blocking poor people and poor countries out of the knowledge economy.

#### THE NEED TO BROADEN GOVERNANCE

Intellectual property rights were first raised in GATT in 1986 to crack down on counterfeit goods. Their reach has gone far beyond that into the ownership of life itself. As trade and intellectual property law increasingly come to determine the path of nations—and the path of technology—questioning present arrangements is not just about economic flows. It is about preserving biodiversity, carefully considering the ethics of patents on life, ensuring access to health care, respecting other cultures' forms of ownership and preventing a widening of the technological gap between the knowledge-driven global economy and the rest trapped in its shadows.

At a time of such dramatic breakthroughs in new technologies, it is indefensible that human poverty should persist as it does. What is more startling is that the current path could be leading to greater marginalization and vulnerability

# BOX 2 8 Ethics and technology—a luxury concern?

The ability to manipulate genetic resources is running far ahead of the understanding of where to place the ethical limits. Sheep, mice and human cells have already been cloned—all considered impossible only 10 years ago. The new technologies have sparked many debates about the limits of science and the ethics of tampering with the essence of life.

Some argue that ethical questions are a luxury for the wealthy and should not hinder technological change in the developing world, especially when the race is on to establish a competitive edge. But this is surely wrong. The pursuit of human development is the first priority, and all concerns—social, tinancial, ethical, environmental—need to be

taken into account. This is especially true of the new technologies whose social and environmental implications are still unknown. To ask who gains and who loses, and what are the benefits and what are the costs, is precisely to ask the ethical questions.

Far from being able to ignore these issues, developing countries often find themselves at the centre. They are home to much of the world's biodiversity. And neglecting the ethical issues surrounding genetic engineering will lead to their continued neglect in economic forums. For developing countries the ethics of technology are far from a luxury—they are a basic.

Source Shive 1997

of poor people. The relentless march of intellectual property rights needs to be stopped and questioned. Developments in the new technologies are running far ahead of the ethical, legal, regulatory and policy frameworks needed to govern their use. More understanding is needed—in every country—of the economic and social consequences of the TRIPS agreement. Many people have started to question the relationship between knowledge ownership and innovation. Alternative approaches to innovation, based on sharing, open access and communal innovation, are flourishing, disproving the claim that innovation necessarily requires patents (box 2.9).

Broader governance is also needed in the communications industry. Governance of the Internet has until recently been ad hoc and largely biased towards the needs of high-tech countries. Debates over taxing electronic commerce, allocating domain names and creating privacy laws need to be opened up to include the needs and concerns of developing coun-

tries, which have an equal interest in the evolution of this tremendous tool.

Participation in the governance of technology must also be widened. Race car drivers would not be the best advisers on public transport, and scientists at the cutting edge of the technological revolution cannot alone decide its path. This calls for collaboration—in national and global forums—between industry, independent scientists and technicians, governments, regulators, civil society organizations and the mass media.

PUBLIC INVESTMENT IN TECHNOLOGIES FOR DEVELOPMENT

The path of technology must be reshaped if developing countries are to see an advance in sustainable agriculture, wide access to global communications and improvements in the health of their populations. The new structure of science requires new initiatives. New technologies promise many advances for human

At a time of such dramatic breakthroughs in new technologies, it is indefensible that human poverty should persist

BOX 2.9

## Questioning the ownership of knowledge

Innovation is one of the most important processes for human development. It pushes human capability forward and keeps cultures thriving. It is also at the heart of the human quest to expand knowledge. But are patents always the best way to promote innovation in new technologies? There are good reasons to question this common claim.

Experts question current trends

Some scientists are appalled by the scramble for patents for commercial gain, believing that it damages research openness about discoveries that should be shared for the common good. With the "stacking"—tactical purchase—of patents by corporations, the terrain of medical and agricultural research is quickly being carved up and fenced off. Ideas are no longer shared across the boundaries of different research groups.

History tells another story

Many of today's developed countries—ironically now the strongest advocates of tighter intellectual property rights—themselves had loose rules when they were setting up their national industries, changing their tune only after they became technology exporters.

Canada and Italy had no trouble attracting foreign investors even when they lacked patent protection. In Switzerland in 1883, a leading textile manufacturer defended loose laws, saying "Swiss industrial development was fostered by the absence of patent protection. If [it] had been in effect, neither the textile industry nor the machine-building industry . . . would have flourished as they did."

Empirical evidence shows no clear link Despite the fierce defence of the need for intellectual property rights in new technologies, there is no conclusive evidence to back it up. Do tighter intellectual property rights increase trade in knowledge-intensive goods: Unclear, A 1999 World Bank study examining the experience of more than 80 countries found that the effect of intellectual property rights on trade flows in high-tech goods was insignificant. Do tighter intellectual property rights increase foreign direct investment in high-tech goods? Studies say yes for pharmaceuticals-along with higher prices-but for other knowledge goods foreign direct investment usually depends on market size, technological infrastructure and macroeconomic policy. Do tighter intellectual property

rights spur multinational corporations to carry out in-country research and development? Apparently not: studies have found that competitive markets are the biggest influence on research and development, not patents. All this evidence is inconclusive—but while the jury is still out, how can the judge decide?

There is living proof of successful alternatives Alternative ways of innovating are alive-and doing very well. The Internet is testament to the power of cooperative, decentralized approaches to solving problems. Rejecting the tight control over software given by copyright, a reverse movement has been launched-"copyleft", turning standard practice on its head. Rather than guarding the source codes to programmes, software developers allow users to view, modify and innovate with them-as long as they keep the new codes open too. The result? Arguably the best software around. Apache, a Web server developed communally by programmers in their spare time, is one of the most reliable and up-todate products available—and is installed on 50% of publicly accessible Web servers. Its nosecrets policy makes it an ideal tool for teaching and experimenting in programming.

Source: Gerster 1998; Fink and Braga 1999, Leonard 1997; GRAIN 1998; UNCTAD 1997.

Incentives are needed to turn research towards the pressing needs of the world, not just of those who pay development, but public institutions cannot afford them alone and private industry will not develop them alone. Jointly they can. Innovative policy is needed to ensure that muchneeded solutions for human development are pursued. Incentives are needed to turn research towards the pressing needs of the world, not just of those who pay. One proposal is for the Consultative Group on International Agricultural Research (CGIAR) to reroute genetic research to wider needs (box 2.10).

A representative group of independent scientists is needed to identify the critically important technological challenges-those that, if solved, would substantially improve the human development of the world's poorest people and address the global challenges to human security faced by all. Every five years the group could offer financial incentives and public recognition to researchers, public and private alike, for innovations that would be used for global public interests. What would be high on the list? In agriculture, sustainable, robust and biosafe crops. In medical research, vaccines for malaria and HIV. In communications technology, personal computers powered by solar strips and wind-up or dynamo drives, resistant to sand and humidity; software for touch screens; and prepaid chip card software for electronic commerce without credit cards. In environmental science, diverse sources of renewable energy. What would fund such initiatives? A levy on patents registered under the World Intellectual Property Organization is one possibility. A levy of just \$100 on each patent would have raised \$350 million in 1998 alone, equivalent to the annual budget of the world's largest international research organization in agriculture, the CGIAR. Alternatively, funding could be reallocated from the research subsidies, grants and tax breaks now given to industry.

Pushing for change in multilateral agreements

The WTO is planning a review of the TRIPS agreement. But these discussions must not simply push into new issues. Intellectual property rights agreements were signed before most governments and people understood the social and economic implications of patents on life. They were also negotiated with far too little participation from many developing countries now feeling the impact of their conditions. There is a clear need for a full and broad review of existing legislation, not an additional, unsustainable burden of new conditions.

The choice is not between patents on everything or on nothing. Rather, the question is, how much should be patentable? How can the system be structured to take into account diverse interests and diverse needs?

The review needs to ensure that the room for manoeuvre granted in the TRIPS agreement is respected in practice. Interpretation of the agreement is obviously not a unilateral matter, and proposals by developing countries have often been rejected by G-7 countries keen to maintain their industrial interests. In the event of disagreement, dispute resolution mechanisms involve intense negotiating among lawyers—expensive and complex. The advantage in costs and expertise clearly does not lie with developing countries.

To strengthen their bargaining positions in pushing for change, countries need to present frameworks that provide alternatives to the provisions of the TRIPS agreement. Work is already well under way. Many countries are exploring possible sui generis legislation for plant varieties to protect farmers' rights. The difficulty is the need for legislation to meet many diverse interests within each country. One strong and coordinated international proposal is the Convention of Farmers and Breed-

BOX 2.10

# Rerouting the genetic revolution—the CGIAR proposal

The Consultative Group on International Agricultural Research (CGIAR) proposes to redirect the path of modern biotechnology by providing public research to meet the needs of all humanity. Responsible for a major collection of crop species—numbering 600,000 accessions—it has called for an end to patenting genes drawn from gene banks. It has also banned the use of genetically sterile seeds—"terminator technology"—in its own research The CGIAR's current budget for crop biotechnology is just \$12 million a year—compare that with US private sector spending on biotechnology research. \$9 billion in 1997 alone.

The CGIAR plans to rejuvenate a strong public research system to ensure that breakthroughs in science are translated into breakthroughs for people—reducing malnutrition, poverty and environmental degradation, keeping the findings as public property. Also needed are "rules of engagement" for the public and private sectors, based on the premise that access to the means of food production is as much a human right as access to food. The CGIAR could also lead the way in combining the search for solutions with precautions against risk—following the equity and biosatety protocols of the Convention on Biological Diversity

Source (GIAR 1998

ers (CoFaB). It offers developing countries an alternative to following European legislation by focusing legislation on needs to protect farmers' rights to save and reuse seed and to fulfil the food and nutritional security goals of their people.

For indigenous people's interests, too, open debate is needed across countries to bring together the most up-to-date thinking for use by negotiators and policy-makers. The framework needs to consider collective rights to knowledge and resources, the need for prior informed consent for use of materials and knowledge-not just the consent of the government but also of the indigenous groups concerned—and the need for transparency in the findings of research. Some initiatives have already been taken. Indigenous people's organizations around the world such as the Indigenous Peoples Biodiversity Network are seeking guidelines for legal recognition of their intellectual property. Thailand, the Philippines and Australian aboriginal groups have all taken steps to protect indigenous knowledge.

Developing countries facing similar challenges can benefit from consultation and cooperation to create model laws, collaborate in training public officials and devise strategies to help industries adversely affected by the new regime. Spreading awareness of the issues at stake is important in building coalitions among national interest groups, regional organizations and international civil society campaigns. Presenting counter-proposals as a united negotiating bloc would greatly strengthen the possibility for change. In March 1999 the International South Group Network drew together representatives from 17 southern and East African countries to discuss a joint position on the upcoming World Trade Organization round and the review of the TRIPS agreement, greatly strengthening the clarity and force of the message to be delivered from countries in the region.

The TRIPS agreement was drawn up with remarkably little analysis of its expected economic impacts. The costs of implementation—revising laws, training officers, testing and enforcing patents—are high, yet the benefits are unclear. If the agreement is to be

reviewed, then let it be a review in everyone's interests. A transparent cost review mechanism should be established within the World Trade Organization, to track the costs of implementing the TRIPS agreement, the effects on consumer prices, the cost of anticompetitive effects and the impact on technology flows. And most important, it should examine the impact on biodiversity, on farming communities and on access to medical resources and scientific information.

#### PUTTING PRECAUTION BEFORE PROFITS

The potentially great benefits of the new biotechnology come with risks attached: national and international guidelines are urgently needed as transgenic crop production grows. Each country needs to draw up biosafety measures, to monitor changes in biodiversity, demand transparency and labelling of products, consider the social, economic and ethical impacts and promote research into areas of national need. Regional coordination is needed for sharing data and experience, for sharing in the costs of training officials and for developing rules of trading.

Much greater attention must be given to understanding the potential environmental and health hazards of genetically altered crops—an especially important task in countries where the science base and media coverage are narrow and there is extensive fragmentation of the food chain into many smallholders, processors and traders.

Participation in the process must be widened. Knowledge is needed not only of the latest technologies but also of local ecosystems and food chains, local culture and systems of exchange, socio-economic conditions and political and market stability. This calls for broad collaboration. Some countries are already on this path with established and representative biotechnology advisory groups. France's government has adopted the precautionary principle, promising to survey the development of the genetic revolution and increase public transparency on findings. The European Parliament favours creating a registry of tested and accepted transgenic products, making a database available to the public.

To strengthen their bargaining positions in pushing for change, countries need to present frameworks that provide alternatives to the provisions of the TRIPS agreement

. . .

Information and communications technologies and biotechnology hold great potential for human development. But strong policy action is needed nationally and internationally to ensure that the new rules of globalization are framed to turn the new technologies towards people's needs. Thus questions need to be asked on how it is used. Does the control, direction and use of technology:

- Promote innovation and sharing of knowledge?
- Restore social balance or concentrate power in the hands of a few?
- Favour profits or precaution?

- Bring benefits for the many or profits for the few?
- Respect diverse systems of property ownership?
- Empower or disempower people?
- Make technology accessible to those who need it?

Global governance of technology must respect and encompass diverse needs and cultures. Public investment—through new funding—is essential to develop products and systems for poor people and countries. Precaution is needed in exploring new applications, no matter how great their commercial promise. Only then will the rules of globalization allow technological breakthroughs to be steered to the needs of people, not just profits.



# The invisible heart—care and the global economy

Studies of globalization and its impact on people focus on incomes, employment, education and other opportunities. Less visible, and often neglected, is the impact on care and caring labour—the task of providing for dependants, for children, the sick, the elderly and (do not forget) all the rest of us, exhausted from the demands of daily life. Human development is nourished not only by expanding incomes, schooling, health, empowerment and a clean environment but also by care. And the essence of care is in the human bonds that it creates and supplies. Care, sometimes referred to as social reproduction, is also essential for economic sustainability.

Globalization is putting a squeeze on care and caring labour. Changes in the way that men and women use their time put a squeeze on the time available for care. The fiscal pressures on the state put a resource squeeze on public spending on care services. And the wage gap between the tradable and non-tradable sectors puts an incentive squeeze on the supply of care services in the market. Gender is a major factor in all these impacts, because women the world over carry the main responsibility for these activities, and most of the burden.

In a globally competitive labour market, how can we preserve time to care for ourselves and our families, neighbours and friends? In a globally competitive economy, how do we find the resources to provide for those unable to provide for themselves? And how can societies distribute the costs and burdens of this work equitably—between men and women, and between the state and the family or community, including the private sector (box 3.1)?

To answer these questions requires an understanding of what care is, how it is provided, who bears the costs and the burdens and what the critical paths are to negotiating an equitable solution. These are little-explored issues, but an exciting new body of work is probing them.

# HUMAN DEVELOPMENT, CAPABILITIES AND CARE

The role of care in the formation of human capabilities and in human development is fundamental. Without genuine care and nurturing, children cannot develop capabilities, and adults have a hard time maintaining or expanding theirs. But the supply of care is not merely an input into human development. It is also an output, an intangible yet essential capability—a factor of human well-being.

Most adults need care in the emotional sense, even if not in the economic sense of relying on one another. A clear manifestation of this is the positive effect of social support and social relationships on life expectancy—at least as significant as the negative effects of cigarette smoking, hypertension and lack of physical exercise. Married adults enjoy lower risks of mortality than those who are unmarried.

The difference that care makes for child health and survival is also well documented. A UNICEF analysis identifies caring as the third underlying factor in preventing child malnutrition, after household food security and access to water, health care and sanitation facilities. It is what translates available food and health resources into healthy growth and development. For example, risks of malnutrition and illness depend significantly on whether a child is breast-fed and how long, at what age it is given complementary foods and whether it receives immunizations on schedule. Many studies show that malnourished children grow

Globalization is putting a squeeze on care and caring labour faster when they receive verbal and cognitive stimulation—special attention can encourage a child in pain to eat.

Another link between human development and care relates to equity for the providers of caring labour. These activities are often identified with women's unpaid work in the domestic sector. This is an important source, but there are others. Not just the family but the community plays an important role. So do men, though their contribution is smaller than women's in most countries. The private sector provides domestic service,

BOX 3.1

# If we are going to compete, let it be in a game of our choosing

Once upon a time the goddesses decided to hold a competition, a kind of Olympics, among the nations of the world. This was not an ordinary race in which the distance was determined and the winner would be the runner who took the shortest time, but a contest to see which society, acting as a team, could move all its members forward.

When the gun went oft, one nation assumed that the race would not last long. It urged all its citizens to start running as quickly as possible. It was every person for himself. Very soon the young children and the elderly were left behind, but none of the fast runners bothered to help them out because it would have slowed them down.

At first those who were in front were exhilarated by their success. But as the race continued some became tired or hurt and fell by the wayside. Gradually all the runners grew exhausted and sick, and there was no one to replace them. It became clear that this nation would not win the race.

Everyone's attention turned to a second nation, which adopted a slightly different strategy. It sent all its young men out ahead to compete, but required all the women to come along behind, carrying the children, the sick and the elderly and caring for the runners who needed help. The nation's leaders explained to the women that this was a natural and efficient arrangement from which everyone could benefit. They provided great incentives for the men to run fast, and gave them authority over the women.

At first this seemed to work, but the women found that they could run just as fast as the men if they were not burdened with caring for the weak. They began to

argue that the work they were doing—caring for the runners—was just as important as the running and deserved equal reward. The men refused to make any changes The nation began to waste a great deal of energy in bargaining and negotiation. Gradually it became clear that this nation, too, was losing the race

So attention turned to a third nation, which had started out moving quite slowly, though making steady progress. In this nation everyone was required both to run and to take care of those who could not run. Both men and women were given incentives to compete, to run as fast as possible, but the rules required them all to share in carrying the burden of care.

Having agreed to rules that rewarded both kinds of contribution to the collective effort, people were free to choose their own speed, to find a balance between individual effort and collective responsibility. This freedom and equality contributed to their solidarity. Of course, it was this nation that won the race.

Perhaps this is a utopian fairy tale. But the global economic system tells us that we are all in a race. It tells us to hurry up. It tells us all to worry about our speed. But it does not tell us how long the race will last—or what the best long-term strategy is. And it does not tell us how victory will be defined. If we are going to compete, let it be a game of our own choosing. That is, in a nutshell, the challenge of the new global order: how to define a world economy that preserves the advantages of market competition, but establishes strict limits and rules that prevent competition from taking a destructive turn.

teaching, nursing and similar services. The public sector also provides many services in these areas (figure 3.1).

But in almost all societies the gender division of labour hands the responsibility for caring labour to women, much of it without remuneration—in the family or as voluntary activity in the community. Human Development Report 1995 estimated that women spend two-thirds of their working hours on unpaid work (men spend just a fourth), and most of those hours are for caring work. The hours are long and the work physically hard-fetching water and fuel, for example-especially in rural areas of developing countries. In Nepal women work 21 more hours each week than men, and in India, 12 more hours. In Kenya 8- to 14-year-old girls spend 5 hours more on household chores than boys. These inequalities in burden are an important part of the obstacles women face in their life choices and opportunities.

Women also make up a disproportionate share of workers in domestic service and in professions such as child care, teaching, therapy and nursing. These occupations offer low pay relative to their requirements for education, skills and other qualifications—another source of gender biases in opportunities.

# CARE-OR "TENDER LOVING CARE"

Care can mean a feeling of care, an emotional involvement or a state of mind. Personal identity and personal contact—especially face-to-face contact—are key elements of care services, involving a sense of connection between the givers and receivers. The care-giver may be motivated by affection, altruism or social norms of obligation. The care-receiver has a sense of being cared for. These elements are frequently there even when the care-giver is a paid employee. Individuals often choose caring jobs because they are a way to express caring motives and earn a living at the same time.

The commitment to care for others is usually thought to be altruistic—involving love and emotional reciprocity. But it is also a social obligation, socially constructed and enforced by social norms and rewards. A compelling example: when a mother gets up for the fifth

Source: Folbre 1999.

time in the night to soothe her crying child, it is not necessarily because she gets pleasure from doing so. She may feel quite irritated. But she accepts a social obligation to care for her child, even at some cost to her health or happiness.

The word *care* often refers to looking after people who cannot take care of themselves: children, the sick, the needy, the elderly. But this misses the fact that even the healthiest and happiest of adults require a certain amount of care. Their need for that care may ebb and flow, but it sometimes comes in tidal waves.

#### GLOBALIZATION AND CARE

Economic analysis of care offers three insights into the impact of globalization on human development:

- Women's increased participation in the labour force and shifts in economic structures are transforming the ways care services are provided. Needs once provided almost exclusively by unpaid family labour are now being purchased from the market or provided by the state.
- Increases in the scope and speed of transactions are increasing the size of markets, which are becoming disconnected from local communities. As market relationships become less personal, reliance on families as a source of emotional support tends to increase—just as they are becoming less stable economically and demographically.
- Perhaps most important, the expansion of markets tends to penalize altruism and care. Both individuals and institutions have been free-riding on the caring labour that mainly women provide. Whether women will continue to provide such labour without fair remuneration is another matter.

Globalization is dominated by the expansion of markets and rewards profitability and efficiency. While economic growth reflects increasing private and public incomes, human development needs people to provide goods and services that fall outside the market—such as care and other unpaid services. A country can speed the growth of GDP by encouraging a shift in production from unpaid services such as care to market commodities. Care thus has clear analogies to environmental resources,

with the characteristics of a resource outside the market. But a deficit of care services not only destroys human development—it also undermines economic growth.

This may be just what is happening in many OECD countries today, where there is a shortage of reliable, skilled labour in the midst of widespread unemployment. And despite universal schooling, there are widespread gaps in skills. Data from the International Adult Literacy Surveys in OECD countries show that nearly half the population in almost all these countries score below the level needed to be trained for a skilled occupation.

The traditional restrictions on women's activities once guaranteed that women would specialize in providing care. Globalization's shifts in employment patterns have promoted and to some extent enforced the participation of women in wage employment. The supply of unpaid care services may be reduced, and daughters, cousins or nieces may have to take on more of the work. Nonetheless, women in most countries continue to carry the "double burden" of care services—ending up exhausted.

A challenge for human development is to find the incentives and rewards that ensure the supply of services—from the family, the community, the state and the market—all recognizing the need for gender equality and distributing the burdens and costs of care fairly (boxes 3.2 and 3.3).

Noble. But trends are moving in the opposite direction. In OECD countries the problem is that globalization has pulled back on state services and pushed more to private services. Many social commentators protest the ensuing deterioration in quality.

In the transition economies of Eastern Europe and the CIS these trends have been dramatic, contributing to the huge human costs of the transition. The dismantling and weakening of the welfare state have meant cuts and deterioration in services in health and education—across the board—contributing to the deteriorating human outcomes. Life expectancy was lower in 1995 than in 1989 in 7 of 18 countries—falling as much as five years since 1987. Enrolment in kindergarten declined dramatically—falling from 64% to 36% of 3- to 6-year-olds in Lithuania between

FIGURE 3.1 Four sources of caring labour



Source: Human Development Report Office.

1989 and 1995, and from 69% to 54% in Russia. Responsibility for pre-primary education was transferred from the state to parents, with enormous consequences for mothers of children this age.

# CARE AND MARKET REWARDS

The market gives almost no rewards for care. Much of it is unpaid—most of it provided by women, some by men. The market also penalizes individuals who spend time in these activities, which take time away from investing in skills for paid work or from doing paid work.

Care services are also provided in the market, usually underremunerated. What explains the financial penalty for doing caring work? Gender bias is one factor. A second is the intrinsic reward people get from helping others, allowing employers to fill jobs at lower pay. A third is that people feel queasy about putting a price on something as sacred as care.

And global economic competition has tended to reinforce these trends, as the wage gap increases between the tradable and non-tradable sectors. Wages for teaching, domestic service and other caring work have stagnated—or even fallen—in the industrial countries.

Care produces goods
with widespread
benefits for those who
do not pay for them

Globalization leads to the feminization of labour but the outcome is mixed

Many empirical studies now allow analysis of how shifts in trade patterns affect employment A study covering 165 countries from 1985 to 1990 concludes that greater trade openness increases women's share of paid employment. Further analysis of plant-level data from Colombia and from Turkey—both with rapid export growth—shows that firms producing for export employ more female workers, often in skilled functions.

But increasing participation has not always meant less discrimination. Women constitute a large share of workers in informal subcontracting, often in the garment industry—at low wages and under poor conditions. Highly competitive international markets in garments also mean that

the work is volatile—with contracts moving with small changes in costs or trade regulations.

Globalization has also been associated with home work, tele-work and part time work. In the United Kingdom the share of workers with unconventional work arrangements rose from 17% in 1965 to 40% in 1991. In 1985 the shares of such work arrangements were up to 15% in Japan, 33% in the Republic of Korea and 50% in Mexico, Peru and Sri Lanka. And in Greece and Portugal women constitute 90% of the home workers. This is a mixed blessing. Informal work arrangements can accommodate women's care obligations in the family. But such jobs are often precarious and poorly paid.

Source: Özler 1999.

Care produces goods with social externalities-widespread benefits for those who do not pay for them. It creates human and social capital-the next generation, workers with human and social skills who can be relied on, who are good citizens. But mothers cannot demand a fee from employers who hire their children. This care will be underproduced and overexploited unless non-market institutions ensure that everyone shares the burden of providing it. The traditional patriarchal family, and gender biases in society that limit opportunities for women outside the role of wife and mother, have been the traditional way to solve this problem. But this is obviously inequitable, and no solution at all.

REDISTRIBUTING THE COSTS AND RESPONSIBILITIES OF CARE—
TO FAMILY, STATE AND CORPORATION

Where do the effects of globalization fit in the larger conflicts over the distribution of the costs of care? Consider a mother who devotes much time and energy to enhancing her children's capabilities and a country that devotes much of its national budget to family welfare. In the short run both are at a competitive disadvantage: they devote fewer resources to directly productive activities. But in the long run their position depends on their ability to claim some share of the economic benefits produced by the next generation.

The family today is a small welfare state. Women invest time and energy in children—essentially a "family public good". They pay most of the costs—while other family members claim a greater share of the benefits. What they do is far less transferable outside the family than investments in a career. The resulting loss of bargaining power can mean less consumption or leisure time for women, even if they remain married and enjoy some of their husband's market income.

Public spending on children is modest compared with that by parents. Take public spending in the United States, about 38 percent of all spending. Over the past 30 years the elderly in the United States have received far more than the young for a simple reason—the elderly have more votes than parents with chil-

dren. Studies in Western and Eastern European countries show similar biases against children. Parents who invest in the next generation of workers are not explicitly rewarded for their efforts. Their efforts are socially important but economically unproductive.

For much of the past 200 years nations have exercised a lot of control over the production of care services such as education, health and provision for dependants. The analogy of the family to the state is clear. Both institutions demand commitment to the welfare of the collective rather than the individual. But on the negative side, both institutions can generate oppressive hierarchies that interfere with the development of human capabilities.

Take a multinational corporation, tired of the frustrations of negotiating taxation and regulation with host governments, that buys a small island, writes a constitution and announces a new country-Corporation Nation. A citizen automatically receives a highly paid job. Sounds good, but some restrictions apply. Individuals must have advanced educational credentials, be physically and emotionally healthy, have no children and be under the age of 60. They do not have to emigrate but can work from their country over the Internet. And they immediately lose their new citizenship if they require retraining, become seriously ill, acquire children or reach the age of 60.

Corporation Nation can free-ride on the human capabilities of its citizen workers without paying for their production or their maintenance when ill or old. It can offer high wages to attract the best workers from around the world without threatening its profitability. Footloose capital of the globalized economy weakens the connections between corporations and communities, and the obligations to citizens. Why then would multinational firms remain in countries that tax them to support the production of human capabilities when they can go elsewhere and free-ride? They will remain for a while, out of habit and loyalty. But the ones that jump first to take advantage of new opportunities will win the race if the finish line is defined by maximizing the short-term value of market output.

# THE CHALLENGE OF CARE IN THE GLOBAL ECONOMY

How can societies design new arrangements for care in the global economy—to make sure that it is not squeezed out?

Many fear that there is no alternative to the traditional model of the patriarchal household in which women shoulder much of the responsibility through unpaid work. The resurgence of religious fundamentalism around the world testifies to the anxieties about changing traditional patriarchal relationships that have ensured a supply of caring labour. Many social conservatives fear that globalization fuels market-based individualism at the expense of

#### 80X 3.3

# More paid work doesn't reduce unpaid work

Women are responsible for most unpaid care work—a social norm slow to change. A review of time-use surveys in *Human Development Report 1995* showed a general trend to greater gender equality in unpaid work in the OECD countries, but no equalization in developing countries and a deterioration in the transition economies of Eastern Europe and the CIS.

Bangladesh had one of the largest increases in the share of women participating in the labour force—from 5% in 1965 to 42% in 1995. This has been important for export growth, with women as the main workers in the garment industry. But women still spend many hours in unpaid work. A survey of men and women working in formal urban manufacturing activities shows that women put in on average 31 hours a week in unpaid work—cooking, looking after children, collecting fuel, food and water (box table 3.3). Men put in 14 hours in activities such as house repair. Workers in the informal sector show similar patterns.

Women in Eastern Europe and the CIS spend more hours in paid employment than those in most other countries. But the gender disparity in sharing the burden of unpaid work remains stark, and it is worsening under the economic dislocations of the transition. In Bulgaria men's total work burden was 15% less than women's in 1977 but 17% less in 1988. Women increased their share of both paid and unpaid work—in 1977 men did 52% as much household work as women, but in 1988 only 48% as much. In Moldova women work 73.5 hours each week.

In OECD countries men's contribution to unpaid work has been increasing. But a woman who works full time still does a lot of unpaid work. Once she has a child, she can expect to devote 3.3 more hours a day to unpaid household work. Married women who are employed and have children under 15 carry the heaviest work burden—almost 11 hours a day.

#### **BOX TABLE 3.3**

# Time spent in paid and unpaid work in Bangladesh, 1995 (hours per week)

		Formal sector workers		Informal sector workers	
	Men	Women	Men	Women	
Unpaid work	14	31	14	24	
Paid employment	53	56	23	21	
Total	67	87	37	45	

Source: Zohir 1998; UNDP 1995.

social commitments to family and community. A consistent theme of religious fundamentalism worldwide: re-establish rules that restrict women's rights for fear that women will abandon caring responsibilities.

At the other end of the spectrum is market provision of care—but often the people who need care cannot afford to pay for it. And finally there is state provision. But the search for efficiency in today's global economy imposes a "market discipline" that is at variance with quality. Cost-minimizing standards drive down quality in schools, hospitals and child-care centres. So public services alone are not a total answer, though state support must be a big part of it.

In all this, the challenge is to strike a balance between individual rights and social obligations of care. Competitive market societies emphasize values that encourage individualism—and say little about obligations and commitment to the family and community. The extreme responses of the patriarchal backlash and the marketization of care require far less effort and negotiation than the democratic response, which requires

serious thinking about how to enforce responsibilities for care in the community.

So the first step must be to challenge social norms—to build commitment of both men and women to their responsibilities for caring labour. Societies—through public and corporate policy—then need to acknowledge care as a priority human need that they have a social obligation to foster.

A clear policy path is to support incentives and rewards for caring work, both paid and unpaid, to increase its supply and quality. This does not mean sending women back to the traditional role of housewife and mother, closing off other opportunities. It means sharing unpaid care services between men and women, reducing men's paid work time and increasing their time on family care. And it means increasing the supply of state-supported care services. Nordic countries have a long tradition of such approaches, which give public recognition and payment for care, rewarding family commitment but without reinforcing traditional gender roles (box 3.4).

BOX 3.4

# Support for men's child-care responsibilities in Western Europe

Although several countries in Western Europe have encouraged gender-neutral familyoriented work policies, in 1995 only 5% of the male workforce in the European Union (EU) worked part time, and only 5% of fathers took paternity leave. Men often cite their work environment as a constraint when explaining their reluctance to make full use of parental and paternal leave rights or to work part-time to care for a child. Private sector employers in particular are seen as unsupportive of such arrangements. Traditionally it has been women who have had to move into part-time labour or take a career break after the birth of a child. EU Commissioner for Employment and Social Affairs Padraig Flynn has stated that "even where there are policy instruments aimed at breaking down the gender imbalance in caring . . . the assumption that caring is the responsibility of women persists."

#### Time use

Austria. Men spend an average of 70% of their time in paid labour, 30% in unpaid; women spend an average of 30% of their time in paid labour, 70% in unpaid. Women make up 98% of part-time employees.

Source: Flynn 1998; EU Network 1998.

Denmark. About 65% of men in the labour force work 30-39 hours a week, 30% work more and 5% less; 69% of women work 30-39 hours, 11% work more and 20% work less. In 1987 men spent 10 hours a week in unpaid work, women 21 hours; in 1997 men spent 13 hours in unpaid work, and women 18.

Germany. A third of women work less than 35 hours a week; only 2-3% of men do so.

Italy. Married women with children spend 7.5 hours each day in care work, men 1.5 hours.

Netherlands. Women spend twice as much time in unpaid work at home as men (women 32 hours, men 16). But women who work more than 30 hours a week spend only 18 hours in unpaid housework, compared with 19 hours for their husbands.

Spain. Women spend seven times as many hours doing domestic work as men.

## Paternal and parental leave

Denmark. Fathers are allowed a 2-week paternal leave for the birth or adoption of a child. They can also use the last 10 weeks of maternity leave (10% of fathers do this). And there is a 4-week extension for fathers only.

Finland. Fathers may take 6-18 days of paternal leave, and 158 days of parental leave can be shared after maternity leave ends (parental leave is used by only 3% of fathers). One parent can take unpaid leave until the child is three. And parents are allowed 2-4 days a year to care for a sick child.

Italy. During the child's first year a 6-month parental leave can be taken after maternity leave ends (at 30% pay).

Norway. Employees may take parental leave for 42 weeks (at 100% pay) or 52 weeks (at 80% pay). Fathers must use at least 4 weeks of the parental leave; otherwise that period is lost. Parents may also combine their leave with parttime work. Employees are allowed 10–15 days each year to care for a sick child, single parents 20–30 days.

Sweden. Employees are allowed 10 days' paternal leave for the birth or adoption of a child, 450 days' parental leave (at 80% pay). One parent, usually the father, has an absolute right to one month (at 85% pay). Parents have the right to a 25% reduction in their work hours until a child is eight; child care is a legal right.

Citizens could be given tax credits for contributing care services that develop long-term relationships between individuals. And this model could be extended further. For example, many young adults benefit from public support for higher education. They could repay the costs through mandatory national service that takes some responsibility for children and other dependants in their community. The care services they could provide would be at least as valuable as military service, and they could develop important skills as well as reinforce the value of care.

Policies to foster more caring labour appear unproductive or costly only to those

who define them as narrowly contributing to GDP or short-term profit. The erosion of family and community solidarity imposes enormous costs reflected in inefficient and unsuccessful education efforts, high crime rates and a social atmosphere of anxiety and resentment. The nurturing of human capabilities has always been difficult and expensive. In the past it was assured by a gender division of labour based on the subordination of women. Today, however, the cost of providing caring labour should be confronted explicitly and distributed fairly—between men and women, and among the state, the family or community and the employer.



# National responses to make globalization work for human development

Markets can go too far and squeeze the non-market activities so critical for human development

Globalization has swung open the door to opportunities in the world's markets. But markets can go too far and squeeze the non-market activities so critical for human development. Because of a fiscal squeeze, the public provision of social services is being constrained. Because of a time squeeze, the personal provision of (unpaid) caring services is being reduced. And because of a perverse incentive squeeze, the environmental resources so essential for human development are being degraded.

The markets in today's global system are creating wonderful opportunities, but distributing them unevenly—and the volatility of markets is creating new vulnerabilities. What's worse, the success of the global markets has marginalized many non-market activities for human development, making human wellbeing even more vulnerable.

What can countries do to make globalization work for human development?

- · Capture global opportunities in trade, capital flows and migration.
- Protect people against the vulnerabilities that globalization creates.
- Overcome the resource squeeze from the shrinking fiscal autonomy of the state.

For national action to succeed in these areas, countries have to generate pro-poor growth that reduces inequalities and enhances human capabilities. They also have to create effective alliances of all actors. And they have to formulate strategies for better managing their needs and interests in today's globalizing world. None of these tasks is easy. With deeper integration of economies in the global system, the demand for convergence of policies is high. But without strong national governance, neither the opportunities nor the threats of globalization can be effectively managed for human development.

#### CAPTURING GLOBAL OPPORTUNITIES

Comparative disadvantage in markets and resources need not be a constraint. With appropriate policies, countries can capture global opportunities in trade, finance and employment and translate them into more human development.

#### ENHANCING TRADE

The standard policy prescription for the developing world has been to liberalize trade and provide incentives to produce for export. Many developing countries have reduced their tariffs, removed distortions in exchange rates and trimmed fiscal deficits. The CFA countries have devalued the CFA franc. Eritrea, Ethiopia and Mozambique have achieved current account convertibility for their currencies. Several South Asian countries have removed import restrictions. Transition economies in Eastern Europe and the CIS have made tax incentives a key part of their strategies. And several Arab states are liberalizing financial services.

Has this helped growth? Yes, in many countries. Botswana, Chile, China, India, the Republic of Korea and Mauritius had a burst of exports-and a boost in per capita income. The lessons are clear: countries can accelerate growth through trade liberalization if they have sound macroeconomic management, good infrastructure and social services, and strong governance with an appropriate institutional framework. Critical in all this is human development. Just look at Botswana and Mali. Both opened their economies. But Botswana's per capita income grew at nearly 6% a year in 1980–96, while Mali's shrank 0.8% a year. In the mid-1980s Botswana was far ahead of Mali in human development (figure 4.1).

Translating trade and growth into human development. Even though there is a strong link between trade and growth, there is no automatic link with human development (table 4.1). Egypt and Pakistan achieved annual export growth of more than 5% and per capita income growth of more than 3% in 1985–97, yet both still have far to go in human development. At the other extreme, countries can open their economies, but generate neither growth nor human development. Russia generated trade and attracted private capital flows by opening in the 1990s, yet economic stagnation and human deprivation are serious (box 4.1).

By contrast, the Republic of Korea managed trade and growth to improve its human development. Since 1960 life expectancy has risen from 54 years to 74. Infant mortality has come down from 85 per 1,000 live births to 6. More than 96% of its people are expected to survive beyond age 40, and 98% of adults are literate.

The main elements of the Republic of Korea's success:

- A pro-growth strategy, with a commitment to poverty reduction.
- Bold economic reforms, with sound macroeconomic policies and a focus on price reforms.
- Institutions oriented to the market, with a restructuring of banking and financial institutions.
- An emphasis on rural areas and agriculture, with widespread land reform.
- Extensive public provision of social services.
- Redistributive income policies, creating more labour-intensive employment and instituting measures for social protection.

Similar policies in Botswana, Chile, Malaysia and Thailand have also translated good performance in trade into economic growth—and into the well-being of their people.

A major lesson is that capturing global opportunities in trade requires a comprehensive package, evident when contrasting Russia with Poland. From the beginning of its transition to the market, Poland opened its economy,

FIGURE 4.1
Differences in human development—Botswana and Mali, mid-1980s

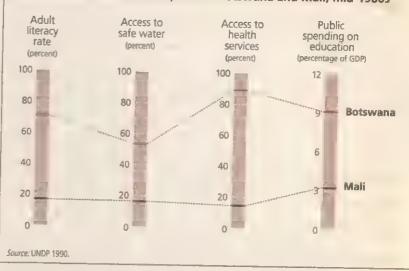


TABLE 4.1

Trade, economic growth and human development—no automatic link (percent)

Country	Annual growth of exports 1985–97	Per capita income growth 1985–97	Reduction in human development index (HDI) shortfall 1985–97
Stronger links			
Singapore	12.9	6.2	45
Mauritius	7.9	3.7	38
Hong Kong, China (SAR Weaker links	) 13.0	4.8	33
Pakistan	9.0	3.0	17
Uganda	8.0	2.4	5

Source: Human Development Report Office.

BOX 4.1

# More trade, more capital, more human deprivation-Russia

In 1997 Russia's exports to the rest of the world were \$56 billion—and its inflows of foreign direct investment \$6 billion, 30% of the total to the region. But its economic growth was a meagre 0.4%. In 1989–96 its Gini coefficient deteriorated from 0.24 to 0.48, a doubling of inequality. Wages fell 48%, with the share of wage income down from 74% to 55% and that of rent and other income up almost fourfold, from 5% to 23%.

There are also serious human deprivations. Between 1989 and 1996 male life expectancy declined by more than four years to 60, two years less than the average for developing countries. The under-five mortality rate is 25 per 1,000 live births, compared with 14 in Poland. Homicides and illegal drug trafficking have increased.

What went wrong? Sometimes Russia's problems are seen as only a financial crisis—partly due to the East Asian crisis, unfavourable external conditions and a lack of progress in building market institutions. A broader view sees deeper causes: bad governance, no rule of law, a criminal society, concentrated power, an imperfect market economy.

Source: Ruminska-Zimny 1999.

built up institutions, put in place democratic and participatory processes and ensured transparency and accountability (box 4.2).

Maintaining labour and environmental standards. Capturing trade opportunities is complicated by labour and environmental standards, for violating them hurts human development.

When wages less than the minimum are imposed on female garment workers in Bangladesh, that is a violation of the minimum wage law. When the workplace is put under lock and key with workers inside, that is a violation of human rights. When hundreds of these women die in a fire because they cannot get out, that is a human tragedy. When 27 million workers in the world's 845 export processing zones are not allowed to organize in unions, that is a violation of workers' rights as well as human rights. And continuing degradation of the environment for economic gain increases the vulnerability of current generations-and deprives future generations of the opportunities that are their due.

Opening the Polish economy with institutional reforms

In the late 1980s, when Poland embarked on opening its economy, it took a "shock therapy" approach to macroeconomic management. In the first few years of transition income and consumption dropped by some 20% and unemployment and poverty increased But in 1994 human development trends started improving and economic growth took off. Consumption increased, and unemployment tell from more than 16% in 1993 to less than 10% in 1997.

What made the difference? Poland shifted in the mid-1990s from a piecemeal to a comprehensive approach. The building blocks of the programme were institutional retorms. policy consistency and popular participation.

At the beginning of the transition Poland established a democratic system with market institutions, including property rights and a transparent financial sector. There was strong political will to advance reforms and a consensus on the transition strategy. Policies aimed at building the market system with a comprehen-

sive approach towards privatization and the modernization of the industrial base. This differed from the rushed and uncontrolled privatization in Russia, from the market option in Hungary and from the equity option in the Czech Republic. By negotiating with banks and other partners, and in some cases undertaking debt swaps. Poland solved the debt problems of state enterprises.

Openness policies remained consistent despite changes in government, and there was a consensus on opening to the world economy, joining the OECD, European Union and North Atlantic Freaty Organization (NATO) and adopting internal policies related to privatization, economic restructuring and decentralization. All policies balanced market and equity considerations.

And all policies were the subject of public debate—in parliament and the media. This gave a sense of transparency and ownership, facilitating consensus. Compare that with Russia, where a narrow group of people made decisions whenever policies were subject to internal conflict.

Source Ruminska-Zimny 1999.

Does lowering labour and environmental standards give developing countries a competitive edge in capturing trade opportunities? No. Are developed countries using these standards as grounds for unfairly restricting trade? Possibly. And do developing countries lose if they improve their labour and environmental standards? Again, no.

Empirical evidence suggests that lowering labour standards does not make a country more competitive, especially if the country does nothing to improve productivity. It is not so much cheap labour as low per-unit labour cost that attracts investment. The irony is that developed countries themselves take advantage of lower labour standards by outsourcing production, \$585 billion worth (in 1994 prices) and more than two-fifths of the exports from developing countries. Enhancing labour standards will not harm developing countries if they can improve productivity.

In labour standards there is a strong movement among trade unions and NGOs to ensure workers' welfare in the developing world. But there is no substitute for government action on legal and regulatory frameworks, on codes of conduct for business and on monitoring and punishing violations of labour standards

On the whole, developing countries will be better served, in trade and in human development, if they maintain appropriate environmental standards. Repeated tests of the pollution haven hypothesis-that investment and production migrate from countries with high environmental standards to those with low standards—have failed to find systematic evidence in its favour. Moreover, trade liberalization affects the environment through many routes-some positive. some negative. The net result can be anything, and thus does not justify lowering environmental standards a priori. Consumers in developed countries can help if they are willing to pay for such standards through social labelling and ecolabelling. And developing countries, through regional collective action, can set regional environmental standards that provide them with better bargaining tools in trade negotiations.

In environmental standards country experience offers specific policy recommendations:

 Abolish policies that distort trade and have negative environmental impacts. In the 1990s, a decade in which Indonesia cut pesticide subsidies from \$128 million to zero, the country's exports grew 7% a year.

- Correct market failures with good incentive systems. In Norway energy taxes have helped cut carbon dioxide emissions in some sectors by more than a fifth since 1991.
- · Provide more incentives for transferring "clean" technologies to help developing countries follow environment-friendly growth paths. In Lithuania 35% of companies started cleaner production in the 1990s.
- Create the legal and institutional framework to comply with environmental standards. In 1997 Brazil passed an environmental law to protect natural resources, imposing fines of up to \$44 million or prison terms of up to four years for illegal logging or killing wild animals.
- Improve the effectiveness of environmental policies through an alliance of communities, NGOs and other institutions of civil society.

One last point. Developed countries should realize that using trade restrictions in the name of environmental standards is protectionist and, for domestic environmental problems, inefficient. For transboundary problems, it is both inefficient and inequitable.

# ATTRACTING CAPITAL-CONTROLLING ITS VOLATILITY

Private capital flows, particularly foreign direct investment, have helped developing countries to grow and to enhance human development. But again, the link between foreign direct investment, growth and human development is not automatic (table 4.2). And empirical evidence suggests that short-term speculative capital makes for financial volatility and little long-term contribution to an economy.

Attracting long-term capital flows. To attract foreign direct investment, the traditional macroeconomic package calls for liberalizing capital, providing incentives, formulating a conducive industrial policy and implementing pragmatic technology and labour policies.

· Countries thus need a comprehensive policy package, not ad hoc measures. Consider India, which liberalized its investment rules,

offered investment incentives and promoted foreign investment opportunities (box 4.3).

 National governance conditions the domestic policy and economic framework, affecting attitudes towards foreign direct investment and operational efficiency and profits. Important in all this is political openness-ensuring a democratic system, promoting transparency and accountability, unleashing the press and civil society and maintaining political stability through the work of democratic political institutions. That is perhaps why Poland, with a GDP a fifth of Russia's, received \$18 billion of foreign direct investment in 1991-97, while Russia received only \$13 billion. In Latin America, too,

TABLE 4.2		
Foreign direct investment,	economic growth and	human development
no automatic link	5.000.000	

	inves flo	n direct tment ows pilions)	Per capita income growth rate (%)	Reduction in human development index (HDI) shortfail (%)
Country	1985	1997	1985-97	1985 97
Stronger links				
Chile	0.2	5.2	3.7	47
China	2.3	43.5	8 3	45
Korea, Rep. of Weaker links	0.3	2.2	6.5	35
Ind a	0.1	3.1	3.7	13
Romania	0.0	1.1	0.6	-2

Source: Human Development Report Office.

#### BOX 4.3

# Liberalizing foreign investment in India

Foreign direct investment flows to India in the 1980s were insignificant not much more than \$1 billion. But in the early 1990s India removed restrictions on ownership, loosened regulations on currency transactions, expedited the review and approval process for foreign investment through "one stop" coordination and encouraged imports of new technology

The outcome, new opportunities for foreign investment. In 1988 the stock of foreign direct investment in India was \$1.2 billion-in 1994, \$2.5 billion. Inflows rose from \$91 million in 1988 to \$300 million in 1994 to \$3 billion in 1997.

cessing zones, where toreign investors

India developed seven export pro-

receive tax incentives and can bring in duty-free imports. India also promoted private foreign investment in the country and identified enterprises for joint ventures The government advertised broadly in newspapers and other media in foreign countries. It arranged international tairs. It sent trade delegations to countries. It cranked up its missions abroad

What helped in this? Good human capital, enhanced technological power, market size, democratic traditions and stable politics. But they are not new. What made the breakthrough possible was the liberalization of toreign investment and a new set of strong incentives.

Source Limiand Siddal 1997

the democratization of politics explains higher inflows of foreign direct investment in the 1990s. Increasingly, there are demands for government insurance against political risks for foreign direct investment. In many cases foreign investors are willing to undertake commercial risks, but require protection against political risks.

 Educating people and moving their skills up the ladder are essential for raising productivity—and for attracting foreign direct investment. The quality of labour and its skill level are an important element in capturing global opportunities. For the workers, skill ensures better pay. Education and training are essential to build the necessary human capital.

 Countries need to complement liberalization policies with technology policies, as Brazil, China, India and Malaysia have done. Look at the results in India, which has been providing incentives for research and development and working with foreign multinationals in high-tech areas.

That's what is needed to have foreign direct investment. But what does it take for foreign direct investment and growth to contribute to human development? First, investments in infrastructure and services should have a direct impact on human development. Second, foreign direct investment must be tailored to national priorities, in activities that have spillovers—in creating more employment, bringing in high technology, building future human capital (box 4.4). Third, countries need to minimize the adverse impacts of foreign direct investment (such as creating inequalities), provide domestic enterprises with necessary incentives and protect their interests.

National action on multinational corporations should focus on:

- Providing appropriate incentives. Countries might give economic incentives to multinational corporations, but these should not come at a cost to domestic enterprises (box 4.5).
- Bringing the operations of multinationals under national rules. While keeping the incentive structures for multinationals intact, their operations should be subject to all national rules and regulations—ranging from general laws to economic regulations.
- Ensuring social responsibility. In the absence of an enforceable international framework governing the operations of multinational corporations, pressing companies to adopt voluntary codes of conduct guaranteeing minimum labour standards for all their international operations has become a key strategy for enforcing labour standards—an issue discussed in chapter 5.

Managing the volatility of short-term capital. The recent financial crisis in East Asia has renewed the debate on the effectiveness of

# BOX 4.4 Foreign direct investment for human development in Malaysia

In 1993 foreign direct investment accounted for nearly 25% of gross fixed capital formation in Malaysia, which has used it to generate growth and enhance human well being. With per capita income growth of more than 4% a year in 1980-95. Malaysia reduced income poverty from 29% to 13% and lowered its Gini coefficient from 0.49 in 1980 to 0.45 in 1993. The income of the poorest 20% has increased from \$431 in 1970 to \$1,030 (1985) PPP\$). Wage employment grew at more than 8% a year in 1970-92, and unemployment has fallen from 8% to 4%.

Look at what that has done for human development. Life expectancy is 72 years. Adult literacy is 85%. Primary enrolments are 91% Infant mortality has come down in the past 20 years from 30 per 1,000 live births to 11. And more than 88% of Malaysians have access to safe water and health services.

l'oreign direct investment played a big part in these achievements. The Malaysian approach has been to use foreign direct investment for economic growth and human development, with economic measures backed by social and structural measures. An active aftirmative action policy for Malays reduced social and economic disparities. Technocratic governance ensured efficiency, and institutional reforms supported the policy measures.

The recent financial crisis spotlights four principles

- A high priority on policies friendly to human development and good governance helps a country take advantage of global ization's opportunities.
- Human and physical capital cannot insulate a country from the harm of globalization—and can indeed attract much more short term capital than a country can cope with
- Rapid access to larger amounts of capital, labour and natural resources can distort the development process, leaving it unsustainable
- A slower, more sustainable pace of growth—with a strong emphasis on human development—may be a better way to take advantage of the opportunities and minimize the vulnerabilities.

Source Iomo 1999

# BOX 4.5

# Incentives to multinationals—and nationals—in Mauritius

Mauritius gave incentives to multinational corporations in export processing zones, simultaneously protecting domestic industries Enterprises in the zones had tariff-tree access to imports of machinery and inputs, tree repatriation of profits, a 10-year tax holiday and implicit assurance that wage increases would be moderate. But domestic firms also got tax holidays and protection from imports. In the mid 1980s the average effective tariff

for manufactured imports was 89°,

The combination fuelled an export boom in garments to European markets, generating new opportunities for women And because incentives went to all industries, the boom didn't drive up wages in the rest of the economy. New profit opportunities were created at the margin, leaving old opportunities undisturbed. There were no identifiable losers, only winners.

10. 16 91 1 142

capital controls to inhibit volatile, short-term flows. Earlier the focus was on capital controls to limit capital flight. Now it's on controls to alter the volume and composition of capital flows (box 4.6).

To avoid the speculative movement of hot money, the Republic of Korea favoured a gradual opening of its financial markets, even though there were pressures to fully liberalize its capital markets to become an OECD member. Rather than opening capital markets directly to foreign investors, the government chose to do it indirectly, allowing domestic financial institutions to borrow from abroad and distribute the borrowed funds in domestic markets.

Malaysia approached crisis management and recovery with a multipronged strategy of fiscal austerity, caps on bank lending, bank recapitalization and capital controls. Its ban on foreigners taking money out of the stock market for a year has attracted much attention. Although new foreign direct investment commitments fell by 12% in 1998, that is not bad given the regional slump. And in recent months Malaysia has eased capital controls, allowing investors to repatriate capital by paying an exit tax equal to 30% of the principal. The impact is not yet clear, but the experience shows that tight fiscal policy alone cannot calm panic and restore the capital flows essential for fast recovery. In addition to relaxing capital controls, Malaysia has recently increased public spending to spur demand and avoid a recession.

# GETTING THE MOST FROM MIGRATION— BOTH WAYS

To aid the migration of unskilled workers, labour-sending countries such as Jordan, Pakistan and the Philippines have set up overseas employment units to capture opportunities for employment and protect workers' well-being. Policies for opening accounts with banks and financial institutions also helped migrant workers—and were good for remittances back home. Egypt managed to get \$4.7 billion in remittances in 1995—close to the \$6 billion it earned from Suez Canal receipts, oil exports and tourism combined. The Philippines received \$7 billion in remittances in 1996, and Mexico \$4 billion. Albania received three times as much

from the 600,000 Albanians working abroad in 1993 as it did from foreign investment.

Countries also need stronger legal frameworks and tougher laws to punish those involved in human trafficking. NGOs and other institutions of civil society can play an important part in uncovering the story of human trafficking (box 4.7).

When developing countries open their economies and develop a strong private sector, they can reverse their brain drains. In Taiwan (province of China) this is called *rencai builiu*—the "return flow of human talent". A survey of US multinational corporations in Taiwan

BOX 4.6

# Short-term capital controls in Chile

In the early 1990s Chile experienced a surge in capital inflows that created a conflict between maintaining a tight monetary policy and spurring export competitiveness. In 1991 the Central Bank attempted to resolve this by imposing a one-year unremunerated reserve requirement on foreign loans, primarily designed to discourage short-term borrowing without affecting foreign direct investment. Between 1991 and 1997 the rate of reserve requirement was increased and its coverage extended in several steps to cover most forms of foreign financing except foreign direct investment.

The empirical evidence on the effectiveness of the Chilean controls in reducing short-term capital flows is ambiguous. It is difficult to be conclusive in the absence of a counterfactual, but national

the controls affected the maturity composition of net capital inflows only after 1995, when they were strengthened Data from the Bank for International Settlements present a somewhat different picture. The figures for short-term external borrowing substantially exceed those reported in Chilean sources, and the maturity structure of foreign bank borrowing appears quite different from what the national data imply.

Analysts, too, are divided on the effec-

data for Chile's external debt suggest that

Analysts, too, are divided on the effectiveness of the Chilean approach. Some suggest that the controls were effective, but only tor a short while. Others suggest that they were not effective before 1995. And still others argue that they were always ineffective.

Source IMF 1998b.

BOX 4.7

# Revealing the human trafficking in Eastern Europe and the CIS

An estimated 500,000 women are trafficked each year from Eastern Europe and the CIS to Western Europe. An estimated 15,000 Russians and Eastern Europeans work in Germany's red-light districts. In the Netherlands 57% of the trafficked women are under 21.

The Global Survival Network played a big part in exposing this slave trade, after studying it between 1995 and 1997. The researchers interviewed police and government officials, NGOs, and women traf-

ficked overseas. It also went undercover to get information from companies dealing with trafficking and traffickers.

The outcome. Crime and Servitude: An Expose of the Traffic in Women for Prostitution from the Newly Independent States. This very useful report showed the size and depth of the problem, heightened awareness of the trafficking in people and made concrete recommendations for actions to rein in the traffickers and assist the victims.

Source Global Surviva Network 1997.

Evidence does not show that flexible labour markets contribute to competitiveness, and the trade-off between worker protection and competitiveness may be illusory (province of China) found that no fewer than 35% of expatriate staff were of Chinese extraction. In both Hong Kong (China, SAR) and mainland China there is a high demand for ABCs (American-born Chinese). The brain drain may also have reversed in India and the Republic of Korea. Would that it could in Africa.

There is also a need to protect unskilled workers who return home. Return migration can occur for several reasons. There could be a slowdown of the economy in receiving countries (oil-producing countries in the 1980s). Countries might want to speed the climb up the skills ladder by importing cheap foreign labour (the Republic of Korea and Singapore). Or there could be political or social problems (some 2.7 million people returned to Russia after having emigrated to other republics, finding it infeasible to stay if they could not speak the national language).

Return migration can cause political, social and cultural disruption in the home countries, as it did for many Asian and Arab countries after the Gulf War in 1991 and as it is doing today in many countries in Eastern Europe and the CIS. Bangladesh, the Philippines and Thailand have long had in place measures to integrate returnees in the economy and society with little disruption.

# PROTECTING PEOPLE AGAINST VULNERABILITIES

People everywhere are more vulnerable. Changing labour markets are making people insecure in their jobs and livelihoods. The erosion of the welfare state removes safety nets. And the financial crisis is now a social crisis. All

this is happening as globalization erodes the fiscal base of countries, particularly developing countries, shrinking the public resources and institutions to protect people (box 4.8).

### COPING WITH CHANGING LABOUR MARKETS

The structure and composition of labour markets in both developing and developed countries are changing rapidly. Some are moving towards jobs that are highly skilled and highly productive. But there are also pressures to be more flexible, as emphasized in chapter 1-and that can mean throwing out the protection of workers' incomes, rights and working conditions. Yet evidence does not show that flexible labour markets contribute to competitiveness, and the trade-off between worker protection and competitiveness may be illusory. Belgium, France, Germany and the United Kingdom weakened labour laws, but with little effect on unemployment. Spain and the Netherlands decentralized wage bargaining and Italy eliminated automatic wage indexation, but also failed to reduce unemployment.

Developing countries have responded to the changing labour markets in different ways—sometimes successfully, sometimes not. Malaysia and the Republic of Korea used price policies to ensure an affordable food supply for workers. By fixing the domestic price of rice above the export price, they maintained the domestic supply. And through subsidies, they ensured that workers could afford it. That allowed them to devalue their currencies to capture trade opportunities while protecting workers.

Countries in Latin America attempted to deal with changing labour markets through wage flexibility, allowing a widening gap between formal and informal sector wages. But that did not increase trade or foreign direct investment. So, they are now trying to make their informal sectors more productive, more vibrant and more sensitive to workers' rights. The lesson: making labour markets flexible by abandoning conditions that protect labour does not help in dealing with changing labour markets and capturing global opportunities.

The new vulnerabilities in labour markets in developing countries call for:

BOX 4.8

# Social protection for Tunisia's poor

Under the pressure of globalization Tunisia cut public spending, but without hurting the poor. Food subsidies tell less in Tunisia than in some other Arab countries, going from 3% to 2% of GDP in recent years, compared with a fall in Morocco trom 55% of GDP to 0.5% between 1981 and 1993. Also important,

Tunista has reduced its ratio of military to social spending in the past 30 years from 45% to 31%, one of the smallest in the Arab States.

Tunisian labour unions, though not large, were instrumental in setting a minimum wage and in maintaining tood substitutes for the poor.

5 1/12 Anin 1009

- Expanding employment, with a focus on creating reasonably productive jobs.
- Constantly upgrading the skills of workers, particularly the unskilled, through training, onthe-job dissemination of technical know-how and building the flexibility in skills needed to move around.
- Maintaining reasonable compensation, the minimum wage and accepted labour standards and rights.
- Increasing the productivity of the informal sector—through tax holidays, duty exemptions, lower interest rates and access to credit.

The transition economies of Eastern Europe and the CIS swiftly transformed labour policies. Wage setting by the state was replaced by income policies, now being abandoned. The region has the old tripartite commissions bringing together unions, employers and governments. But in many countries economic and social conditions have deteriorated so much that unemployment is high and real wages are low. Many enterprises, particularly those in the public sector, cannot pay workers. Workers can be protected only if an adequate legal system, sound institutions and good governance are put in place. Only if macroeconomic policies are undertaken to reverse economic stagnation and enhance human development. Only if social policies are pursued for the protection of people.

In the developed world deindustrialization and declines in manufacturing employment are due mainly to slow growth, outmoded patterns of growth and the expansion of high-skilled, high-productivity jobs. Finance, insurance, real estate, health care and business services have become the most dynamic sectors in job creation, with a doubling in their share of employment. But there are large disparities in skills and wages between service sectors. And part-time and precarious, low-productivity, low-wage jobs are the norm for low-skilled workers in the formal sector. The labour market is also changing because of growing links with developing countries-more imports, outsourcing of investments and immigration. But no more than a tenth of the unemployment in industrial countries can be attributed to these links.

How to overcome the vulnerabilities in labour markets? With political commitment

and strong will, as in Ireland (box 4.9). What specific actions are needed? More growth, particularly pro-labour growth. How can this be achieved through expansionary monetary policy as well as other measures? That is explained later on. Addressing the vulnerabilities of workers in labour markets calls for:

• Providing education and training. Unskilled workers need training to upgrade skills and be flexible in adapting to different situations. Training by governments, direct or indirect, could be supported by an employers' training tax. Employers should also provide training to their employees, encouraged by tax refunds. Just look at the way Sweden has taken

BOX 4.9

## Ireland's social partnership agreements

Since 1988 Ireland has used social partnership agreements to help the Irish act together to pursue strategic goals and recognize the actions of each part of the community. The idea is to have a national strategy against poverty and inequality.

One essential agreement is for moderate wage increases—to ensure work for everybody. It has kept society together through continuous increases in real takehome pay and employment growth without neglecting competitiveness.

The results are impressive. Since 1994 Ireland's GDP growth has been more

than 7% a year, twice the developed world average. Since 1992 Ireland has created nearly 220,000 jobs, more than the rest of the European Union could manage. It cut unemployment in half between 1986 and 1998, and has raised real wages for the average industrial worker about 10% a year since 1990. Inflation remains at 2%, and the national debt is down from 122% of GDP in 1986 to 55% in 1998.

The challenge in all this progress is to reduce poverty and inequality. About 10% of the Irish are not expected to survive age 60, 23% are functionally illiterate, and nearly a fifth are income-poor.

Source: National Economic and Social Forum 1997, Ireland 1998.

BOX 4.10

# Upgrading skills and achieving worker flexibility in Sweden

Globalization has brought changes in Swedish firms' organization, increased capital-intensive production and raised the requirements for knowledge. The results for workers: greater demand for vocational education, skills, broad competence and flexibility.

Sweden has helped workers meet these challenges through programmes to build their skills and increase their flexibility. Its active labour market policy absorbs 7% of the government's budget, \$5 billion for a workforce of 4.4 million. More than 70% goes to training and placement programmes. In contrast to the Netherlands,

rammes. In contrast to the Netl

the Swedish government does not support job creation at the low-wage, lowproductivity end of the market. Its labour market policy has always been part of a policy of full employment that emphasizes equitable wage policies and promoting labour mobility.

Unemployment is lower in Sweden than in Australia, Belgium, Canada, Denmark, Finland, France, Germany, Italy and Spain. Although problems of structural unemployment remain, skills formation and training have contributed to equity and helped prevent long-term unemployment.

Source Bakker 1999

TABLE 4.3

Adjustment and greater income inequality, 1987–88 to 1993–95

Country	Increase
by type	In income
of adjustment	inequality <sup>a</sup>
Non-compensatory	
Russian Federation	0.24
Ukraine	0.24
Estonia	0.12
Compensatory	
Bulgaria	0.11
Latvia	0.08
Belarus	0.05
Populist	
Slovenia	0.03
Poland	0.02
Hungary	0.02

a. The increase in income inequality refers to the increase in the Gini coefficient. A Gini coefficient of zero means perfect equality, a coefficient of one perfect inequality.

Source: Rodas-Martini 1999.

TABLE 4.4

Major and minor collectors of trade taxes, 1990–96

Country	Taxes on international trade as % of total government revenue
Major collectors	
Lesotho	54.8
Madagascar	47.2
Mauritius	40.6
Dominican Republic	40.4
Lebanon	40.2
Minor collectors	
Lithuania	3.6
South Africa	2.6
Brazil	1.6
Singapore	1.3
Stonia	1.2

Source: Human Development Report Office.

workers' training seriously in dealing with changing labour markets (box 4.10).

- Supporting the unemployed in finding jobs. Job search assistance complements training for the unemployed. And public employment may be a real possibility for targeting such disadvantaged workers as the long-term unemployed or workers with disabilities.
- Maintaining workers' benefits and rights. Setting minimum wages at moderate levels does not hurt employment, and it can reduce wage gaps between men and women. Health insurance, maternity benefits, parental leave and unemployment insurance are all important for workers' welfare. And prior notice of dismissal and rights of association and collective bargaining are workers' rights.
- Managing transitional labour markets.
   Policies should support change in the gender roles in households—to value caring activities differently—and encourage the use of information technology.

MANAGING THE SOCIAL COSTS
OF FINANCIAL CRISIS

Financial volatility brings huge social costs, as evidenced by the debt debacle in Latin America in the 1980s, the financial collapse in Eastern Europe and the CIS in the early 1990s and the recent East Asian crisis. The costs go beyond job losses, food insecurity and reduced social services. Weak social insurance systems and sudden unemployment also cause serious psychological and social stress, pushing up circulatory disease and suicide. Some households may even turn to prostitution and crime, leading to the spread of disease, family breakdown, increased violence and ethnic hatred. So, with restoring economic stability, one of the big issues national governments face in a crisis is minimizing the social costs and protecting people.

The financial crises of the 1980s and 1990s show that countries need to:

- Target poor people through public works programmes and food subsidies.
- Protect public spending for basic social services for poor people.
- Put in place such formal protections as unemployment insurance.
- Avoid excessive fiscal restraint.

 Align macroeconomic policies to ensure their compatibility with poverty reduction.

Besides public works programmes, countries can rely on private job placement services to ensure job and income security for poor people, as Thailand did. Income transfers for the needy are also important. To maintain food security, countries have targeted low-cost food supply to poor people. Allowing poor people to cultivate unused land can help to alleviate hunger and absorb some of the urban unemployed.

Social services for poor people are crucial. Indonesia has kept children in school by reducing or waiving school fees and providing more scholarships to poor students. And it has targeted 18 million families in a program to protect basic health services in 1998-2000, ensuring basic health services in health centres, nutritional improvements, midwife services and a health guarantee scheme at the district level. In any kind of transition-whether a financial crisis or trade volatility or economic transition-how people fare depends largely on the kind of social protection. When countries cushion people's living standards against economic declines through social transfers, they minimize the rise in inequality (table 4.3).

## OVERCOMING THE RESOURCE SQUEEZE

The fiscal resource base of developing countries is being squeezed in four ways:

- Trade liberalization. Efficiency objectives, as well as multilateral commitments, have led many developing countries to reduce trade taxes, particularly import taxes. Trade taxes have always been a revenue-raising device for developing countries, where they account for an average of a third of tax revenue (table 4.4). Losing that base has hurt revenue generation in these countries (figure 4.2).
- Globalization of the tax base. With most tax systems designed when economies were primarily domestic, it is difficult to tax operations that are transnational. A typical US company may earn up to 50% of its profit outside the country. Through transfer pricing, multinational corporations can make it even more difficult for national governments to tax them. And the rise in electronic com-

merce is posing a fresh challenge to revenue collection.

- Tax competition. With capital tending to prefer low-tax situations, countries compete in lowering their corporate and capital gains taxes, reducing tax receipts. Of 35 Commonwealth countries that had an individual income tax before 1990, 29 reduced their rates by 1990, and none increased them. And tax-exempt export processing zones compete with one another and with the domestic economy. Tax competition led all OECD countries except Switzerland and Turkey to reduce the rate in their top tax bracket in 1985–90, from an average of 52% to 42%.
- Growth of the underground economy. The growth of the "black", or "underground", economy has also reduced tax revenue in many countries. India's underground economy is estimated at 20% of GDP, comparable in size to Chile, Colombia, Kenya and Nigeria. In the European Union the untaxed economy is estimated to be 25% of GDP. Russia estimates that its tax revenue is less than half of what it would be if tax laws were implemented, and that organized crime generates \$900 million a year. The global drug business generates \$400 billion a year—8% of all international trade.

As the resource base in developing countries shrinks, the demand for public resources grows—a double jeopardy. All the structural changes of globalization increase the demand for public resources—but in the face of reduced revenues, governments are pulling back. Public spending on health and education in countries with low human development declined from 2.0% of GDP in 1986–90 to 1.8% in 1991–96. Capital spending fell in the same period from 6.5% of public expenditure to 6.1%.

Economic and industrial change increases calls on public authorities to offset the effects of stronger competition by subsidizing ailing firms—or helping exporting firms in their struggle for global competitiveness. And seeking to boost growth, public authorities are luring investment capital with various incentives, all with a price.

Governments also have to put up public funds to stabilize their exchange rates. Where capital inflows are sterilized to avoid currency appreciation, open market operations usually lead to losses for the central bank—up to 1% of

GDP in some Latin America countries. In Jamaica central bank losses from exchange rate guarantees exceeded 5% of GDP in the early 1990s. Thailand spent \$23.4 billion, or three-fourths of its foreign exchange holdings, in the first half of 1997 to resist devaluation and shore up financial institutions.

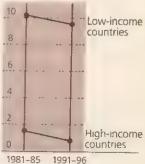
Governments differ in their wishes and capacities to provide social protection. In industrial countries government expenditure increased from just under 30% of GDP in 1960 to nearly 50% in 1995. More than half this increase was due to higher social transfers, up from 9% of GDP to 20%. A recent OECD report recorded an increase in member countries' national costs of subsidies from \$39 billion in 1989 to \$49 billion in 1993. Meanwhile, many countries have cut social spending to balance their books. Confronted by the challenges to welfare states posed by globalization, new thinking has emerged in the discourse within and among supranational organizations about the future of welfare (box 4.11).

Two conflicting models are emerging. One is a modified version of liberalism—liberalism with a safety net, the US model of welfare but more

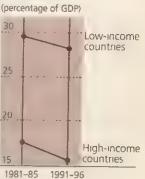
FIGURE 4.2

Reduced revenue generation—
loss of fiscal strength





Tax revenue



Source: Mohan J. Rao 1999a.

BOX 4 11

#### Responses to the eroding welfare state

With the erosion of the welfare state, people in the developed world are even less secure and even more vulnerable—smashed or marginalized by market torces, their survival endangered, with much of the burden talling on women

- The neoliberal response. Britain, New Zealand, the United States and to less degree Australia and Canada believe that the market should supplement a very basic social safety net. But market decay—typified by wage deregulation and low pay—is accompanying welfare decay, eroding both public and private coverage in health and pensions among young and low-wage workers. Welfare gaps will therefore widen, and costs will shift to families and individuals. A double jeopardy the low-wage labour market requires higher income maintenance transfers and creates a disincentive to work.
- The Scandinavian response With declining fiscal resources in recent years, there is now more emphasis on worktare.

and benefits are tied more closely to contributions. High unemployment means more reliance on private sector jobs and services, putting pressure on a "social investment" approach

• The continental European response Continental Europe is subsidizing unskilled workers' exit from the labour market, mainly through early retirement. This creates a dual problem of mass retirement and mass unemployment, pushing up financial requirements and social contributions. The strong incentive to participate in the informal sector or to pursue self-employment further undermines the welfare state's tax base.

Built in labour market rigidities stem from most families' dependence on the male earner's pay and social rights So, it is argued, welfare states need to be scaled down. Dutch social policy suggests the possibility of updating policies without abandoning job growth and social solidarity.

Source Dearon 1400

TABLE 4.5
Social welfare systems and income inequality, 1998

Income

Country

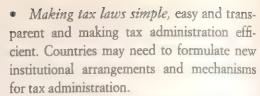
by type of

social welfare	inequality
system	(Gini coefficient
Non-targeted	
Encompassing—ba	ased
on contribution	
Norway	0.23
Finland	0.23
Sweden	0.22
Corporatist—com	pulsory
membership, but.	separate
social programme	
France	0.29
Germany	0.24
Basic security and	targeted
United States	0.33
Australia	0.31
United Kingdom	0.29

 A Gini coefficient of zero means perfect equality, a coefficient of one perfect inequality.
 Source: Rodas-Martini 1999. committed to targeting benefits to poor people. The second, based more on the European welfare system, is more universalist. It argues that the middle class should be brought into the welfare system—to ensure political support, and thus a sustainable tax base, for the system. This approach maintains that without support from the middle class, services for poor people become poor services. This point is borne out in the evidence showing that more targeted programmes result in more inequality (table 4.5).

To cope with the shrinking fiscal autonomy of the state, particularly in developing countries, national governments might focus on:

- Generating more revenue from direct taxes, such as income and property taxes. Direct taxes are often extremely low. In many South Asian countries agriculture accounts for more than 33% of GDP, but contributes less than 6% to total tax revenue. Imposing property taxes on big landholdings would generate significant resources in the region.
- Introducing a value added tax. A broadbased value added tax can be more effective in generating resources than an income tax. But it may be more regressive, requiring a choice between efficiency and equity, a choice that can be tackled only through a full analysis of the impact of both taxes in a country.



• Restructuring expenditures by taking resources away from the military and redirecting them to health and education. Countries in Eastern Europe and the CIS have recently done this.

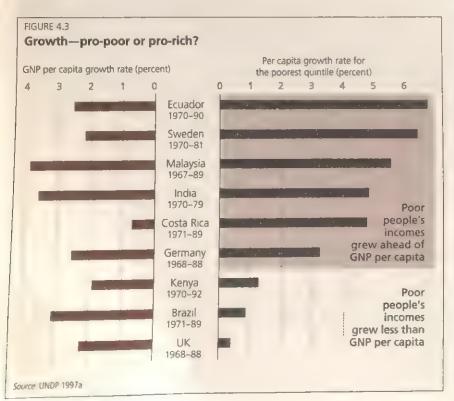
# GENERATING PRO-POOR GROWTH— REDUCING INEQUALITIES AND ENHANCING HUMAN CAPABILITIES

To generate growth the main policy components are ensuring sound macroeconomic management and macroeconomic stability, boosting domestic demand by appropriately adjusting real interest rates, adopting fiscal discipline, accelerating industrial production, reforming financial sector institutions and promoting good governance. But economic growth alone is not enough. It must be pro-poor growth—expanding the capabilities, opportunities and life choices of poor people (figure 4.3). To ensure the generation of pro-poor growth, national action should:

- Restore full employment and expansion of opportunities as a high priority of economic policy.
- Remove antipoor biases in the macroeconomic framework.
- Invest in the capabilities of poor people by restructuring public expenditure and taxation.
- Ensure access of poor people to productive resources, including credit.
- Increase the productivity of small-scale agriculture.
- Promote microenterprises and the informal sector.
- Emphasize labour-intensive industrialization to expand employment opportunities.

Reducing inequality in the developing world requires the following additional actions, through alliances of governments, firms and NGOs:

 Build human capabilities through education and ensure access of poor people to education. Education has been found to be the most important asset in explaining income disparities, and wage dispersion among skill levels has become significant.



- Make public provision of safe water, health services and housing accessible to poor people.
- Make more financial assets and productive resources available to poor people and create productive and remunerative jobs for them.
- Reduce inequality through progressive income taxation and other redistributive policies.
- Provide income transfers and other social protection during adjustment and crisis—and pursue antipoverty programmes for the poorest.

Both redistributive policies and social protection are important means for reducing inequality. But in many developing countries redistributive tools, such as subsidies, favour the rich (figure 4.4). This is particularly true in urban health facilities and universities. Of course, national action to generate pro-poor growth and reduce inequality may be constrained by measures at the international level—a point discussed in chapter 5.

# CREATING EFFECTIVE ALLIANCES OF NATIONAL ACTORS

An alliance among the government, NGOs, local firms and multinational corporations can go far to foster cooperation towards common goals. An alliance does not mean submission by any one actor to the others. The work of each actor can complement that of others, under such universal guidelines as respecting the rule of law, not violating human rights, and being fair, transparent and accountable. A strong, democratically elected government is especially important, allowing representatives of the people to express their aspirations and be accountable to them. All this is easier said than done, for elite groups and other interest groups benefit from the present nature and structure of globalization. They also share power with global elites.

NGOs have emerged as major actors—both in size and in impact. In the United States employment in the NGO sector is nearly 9 million, in the European Union nearly 6 million and in Japan more than 2 million—and in Brazil 1 million, in Argentina 350,000 and in Colombia 270,000. The share of resources accruing to NGOs has steadily increased, even though official aid transfers have been steadily declining. NGO revenues in the United States total \$566

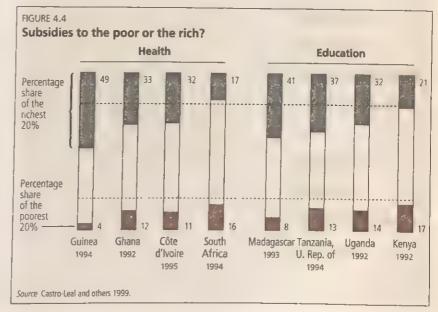
billion, in Japan \$264 billion and in the United Kingdom \$78 billion. In the developing world NGO budgets are nearly \$1.2 billion, more than \$200 million in Mexico alone. And among the transition economies their budgets are more than \$1.4 billion in Hungary and nearly \$900 million in the Czech Republic. The point: NGOs are a strong force—both as advocates and as providers of services.

NGOs can often do more than developing country governments in meeting the basic needs of citizens—using fewer resources. NGOs also create opportunities for people and protect them against the new vulnerabilities of globalization. And they have become important pressure groups, protecting people's rights and watching over other actors. The 1998 Birmingham Declaration for Debt Relief to the poorest countries is an important achievement. During the 1998 election in Germany more than 80 NGOs came together to get a commitment from national political parties to increase aid funding to 0.7% of the country's GDP.

For a long time governments and NGOs were adversarial, each suspicious of the other, but that is changing. NGOs' relationships with local firms and with multinational corporations are also improving steadily. And the donor community is coming to recognize NGOs as development partners (box 4.12).

How can the private sector be pulled in? By allowing it to work creatively, and by encouraging its innovativeness. This requires complemen-

An alliance among the government, NGOs, local firms and multinational corporations can go far to foster cooperation towards common goals



BOX 4.12

## NGOs as a powerhouse in national alliances

In the outcry against child labour—with threats of boycotts and other trade restrictions—NGOs in South Asia have often joined with local manufacturers and the government to lobby against the arbitrary imposition of social clauses within the World Frade Organization. In 1998 a group of NGOs lobbied the World Bank and other international donors to fund detailed research on the human impact of structural adjustment policies.

NGOs everywhere are making bigger contributions to national development

Spurce Human Development Report Office

efforts In Uganda NGOs are collaborating with the government, private sector and communities in a project on nutrition and early childhood development funded by a \$34 million credit from the International Development Association, using their expertise to give primary care providers better access to infrastructure. Proshika MUK, an NGO in Bangladesh, does participatory rural appraisals of the national budget to encourage the government to examine how spending decisions affect the poor and to adopt a pro-poor budget.

BOX 4.13

## Meeting the challenges of globalization—Fundación Chile

Fundación Chile, a joint initiative by the Chilean government and the private sector, combines research and development with a creative vision for market opportunities and a commitment to sustainable development.

The first step is to identify a product that Chile may not ver produce but for which there could be a significant market. Next. Fundacion Chile masters the technology through long experimentation. It the product can be adapted to local conditions, a

company is created for commercial production. When production is exported, the process is complete and Fundacion Chile sells the company. 30 so far to Chilean interests.

Take salmon, which did not exist in Chile Given the high price of salmon in the world market and the demand in Japan. Fundacion Chile introduced salmon in Chile's rivers in the early 1990s. By 1995 salmon exports amounted to almost \$500 million, creating thousands of jobs.

Source Human Development Report Office

BOX 4.14

## Using national human development reports to outline impacts and priorities

National and local human development reports—expected to number 260 by the end of 1999—provide a great opportunity to outline how a country or community is affected by globalization. Some possible elements:

- An analysis of how people have been affected by globalization in the past 5-10 years, with a balance sheet of gains and losses, quantified as much as possible. It should cover which groups of people gained or lost, what enabled the gains and what caused the losses.
- An analysis of gains and losses in the different elements of human security.

- Priorities for action by local communities, by urban and tural groups and by the national government
- Indicators for monitoring the impact of globalization and the effectiveness of national policy to manage it.
- A common position on globalization for the different sectors of government—covering finance, planning, trade, agriculture, health and so on.

Globalization should be the topic of one chapter or the theme for an entire national human development report. The chapter or report might set out key priorities in national policy for managing globalization to enhance human development.

Source: Human Development Report Office.

tary domestic and trade policies to guarantee a competitive market environment, regulating any monopoly or oligopoly, particularly if it provides essential services. In many cases the private sector has demanded subsidies, protection and infrastructure from government to benefit from global markets. But in other cases local firms have accepted the challenge of tackling globalization for the good of the country (box 4.13).

Bringing multinational corporations into these alliances is the most difficult. Not only outsiders, they are empires—with money, power, affiliates, subsidiaries and the support of the international system. They are often seen as creating enclaves in national economies, and it is extremely difficult to bring them under national rules and regulations. To make them partners in the development process, they require support, but they also need to respect national rules and be accountable, transparent and sensitive to social responsibilities.

# FORMULATING STRATEGIES FOR EMERGING NEW ISSUES IN THE GLOBAL SYSTEM

National action is essential to capture global opportunities in trade, capital flows and migration—and to protect people against the uncertainties and vulnerabilities of globalization (box 4.14). But the success of national action hinges on how effectively countries can negotiate at the global level.

Globalization's many facets require a focus, but efforts today are divided among different ministries and departments. Some are led by the ministry of trade, some by the ministry of finance and some by the ministry of planning. This fragmentation not only weakens the capacity of developing country governments to develop a powerful and consolidated strategy at global forums. It also limits their ability to capture global opportunities. That is why each developing country should set up a coordinated mechanism for dealing with globalization. And whatever the mechanism chosen-presidential task force, global planning commission, special interministerial unit-it must be given the visibility, power and flexibility as well as the technical expertise and political clout to handle the complexities of globalization.

CHAPTERS



# for humanity and equity Reinventing global governance—

What area of policy is most important for managing globalization? Harmonizing global competition and free market approaches with steady and expanding support for human development and human rights in all countries, developed and developing. This is at the heart of a new perspective, a new global ethic, a new approach to globalization. And it requires a range of actions, from the broad to the specific.

Reinventing global governance is not an option-it is an imperative for the 21st century. The preceding chapters have spelled out possibilities for human development—and the pitfalls. They have also spelled out the failures of governance in getting the most from the opportunities-and in avoiding the pitfalls.

The costs of these failures are much larger than generally realized. Consider the output losses from the East Asian crisis and its global repercussions. Over the three years from 1998 to 2000 these are estimated at nearly \$2 trillion. These losses are:

- About 2% of global economic production in these years—and more than the combined annual income of Sub-Saharan Africa, the Arab States and South Asia.
- Enough to double the incomes of the poorest fifth of the world's people.
- About twice the additional finance required over the next decade to achieve the goals of basic education, primary health care, family planning, nutrition, water and sanitation for all.
- Well over 10 times the \$170 billion mobilized internationally to prevent the economic

And as chapter 1 made so painfully clear, the cold statistics of economic loss convey few of the human costs—interrupted treatment for

hospital patients, rioting and looting in the streets, rising unemployment and declining school attendance. This has become the worst setback to the global economy since the 1930s.

For developing countries there have long been losses from the inadequacies and inequalities in global governance. Some result from weaknesses in global markets for capital -and some from restricted access to developed country markets for exports and technology. Restrictions on migration are still a major contradiction with the principles of the open global economy and one with a high cost to developing countries. Human Development Report 1992 estimated the total cost of denying market opportunities to developing countries as roughly \$500 billion a year, almost 10 times the amount they receive each vear in aid.

With the Asian crisis in 1998, the need for fresh thinking about global governance has again been recognized. Initially, the crisis was attributed to weaknesses of domestic policy and action within the countries affected, even though only months before the same countries had been hailed as Asian "miracles of development". But the need for changes in international governance is now widely accepted, and the international community has begun to seek solutions with renewed vigour.

Even so, the debate on international reform is:

- Too narrow in scope—usually excluding human development as an objective, underplaying the importance of employment and environmental sustainability and largely neglecting economic and social rights.
- Too geographically unbalanced—dominated by the concerns of the industrial countries, with secondary attention to the emerging and large

Reinventing global governance is not an option—it is an imperative for the 21st century

economies. The poorest and least developed countries are largely neglected.

• Too driven by the economic and financial interests of the rich countries—often those of the G-7, sometimes just the G-1.

Is it too ambitious to think and plan more boldly? Recall the remarkable vision and human concerns of the 1940s, when the United Nations and Bretton Woods institutions were created. At that time full employment was a key objective, along with:

- Fulfilment of economic and social rights.
- Measures for economic stability, including stability of commodity prices.
- An integral view of the United Nations and Bretton Woods institutions.

BOX 5 1

#### Keynes's vision for global governance

The architecture of international governance set up after the Second World War was in several respects more advanced than that of today.

- There was an integral view of the United Nations and Bretton Woods institutions, working together as part of the whole UN system.
- Economic and social rights were key objectives. The UN Charter emphasized that "conditions of stability and well being are necessary for peaceful and friendly relations among nations" and "all members pledge themselves to take joint and separate action in cooperation with the organization for 'promoting' higher standards of living, full employment, and conditions of economic and social progress and development."
- The International Monetary Fund and the World Bank were to be complemented by a third body, an international trade organization.
- Full employment was a basic goal, to be supported in all international economic operations.

Kevnes went much further than the governments of the time were prepared to accept. He proposed a fund with access to resources equal to half of world imports. The IMF today controls liquidity equal to less than 3% of world imports. He envisaged the IMF as a world central bank, issuing its own reserve currency (Bancor). In the 1970s the IMF was permitted to create a limited amount of special drawing rights

(SDRs), but these constitute less than 3% of global liquidity today

Keynes placed the burden of adjustment on both surplus and deficit countries even envisaging a penalty interest rate of 1 - a month on outstanding trade surpluses. In practice, deficit nations mostly developing countries) have had to bear the main burden of adjustment –except for the United States, which can avoid adjustment because its deficit serves to supply dellars needed for liquidity by the global system. The IMF now exercises some monetary discipline only on developing countries, which are responsible for less than 10% of global liquidity.

The international trade organization, as envisaged by Keynes, had functions far beyond the present World Trade Organization. Keynes's international trade organization was not only to maintain free trade but also to help stabilize world commodity prices, essentially through buffer stock arrangements.

Keynes went even further. He recognized that the long term international prices for commodities must be fixed in relation to both the economic conditions for efficient production and the human conditions for proper nutritional and other requirements to ensure a decent standard of living among primary producers (a principle that Keynes recognized would also apply to producers of manufactured goods).

Direct concern for nutrition and decent living standards has yet to be incorporated into the principles of international trade.

Source Keynes 1980.

The entire structure rested on the Charter of the United Nations, one of the most remarkable and pioneering documents of the 20th century. The far-seeing principles of the UN Charter were reinforced three years later in the 30 articles of the Universal Declaration of Human Rights (boxes 5.1 and 5.2).

Fundamental rethinking of policy and governance is again required. It must be broad and fair, and it must restore an integrated approach covering social as well as economic issues. Key priorities:

- Putting human concerns and human rights at the centre of international policy and action.
- Protecting human security and reducing vulnerability on a worldwide scale.
- Narrowing the extremes of inequality between and within countries.
- Increasing equity in negotiation and structures of international governance.
- Building a new global architecture for the 21st century.

In short, reform driven by concern for people, not for capital.

PUTTING HUMAN CONCERNS AND RIGHTS AT THE CENTRE OF GLOBAL GOVERNANCE

Changes in international governance are needed so that the international system does much more to support, and much less to hinder, international, national and local actions for human development. Five specifics:

STRENGTHEN GLOBAL ETHICS AND RESPONSIBILITY

Global governance with a human face requires shared values, standards and attitudes—a wide acceptance of human responsibilities and obligations. Those values include respect—for life, liberty, justice and equality. And they include tolerance and mutual caring.

Such values underlie the UN Charter and the Universal Declaration of Human Rights. They now need to be translated into the principles and practices of global governance. How? With a strong political commitment propelled by public awareness and support (see the special contribution by Ted Turner).

BRING PRINCIPLES OF HUMAN DEVELOPMENT AND SOCIAL PROTECTION INTO THE CONCEPTS AND PRACTICES OF GLOBAL ECONOMIC GOVERNANCE

Global competition and market efficiency are the big objectives of current efforts to restructure global economic governance. Important, but they are too narrow internationally, just as they would be nationally. Global governance needs to incorporate human development priorities for people in all parts of the world—for poverty reduction, equity, sustainability and human development.

Until recently social and welfare policy were matters for national action. With globalization, this has been changing. In the industrial countries global economic competition is putting welfare states under pressure, as chapter 4 showed. In many developing countries education, health and the more limited range of welfare provisions have come under even greater pressure. Structural adjustment policies have often cut back primary health care and basic education, with reduced subsidies and increased charges restricting access to these services for poor people.

At the same time the institutions of global governance have leaned hard on national governments to adopt their preferred systems of social protection—marginal for the International Monetary Fund, social safety nets for the World Bank and a broader and more pragmatic range of social policy options and mechanisms for other UN agencies. Human development policy, as promoted in the Human Development Reports, is an example.

But a broader, more coherent set of international principles is required—as some governments are beginning to recognize. Such principles should be built on:

- Economic, social and cultural rights as well as political and civil ones.
- The goals and commitments of the global conferences of the 1990s.
- Democratic and equitable governance, globally and nationally.

The World Bank Group and the IMF need to explore how these principles are brought into their policies and operations.

ADOPT REGIONAL AND GLOBAL AGREEMENTS
TO PREVENT RACES TO THE BOTTOM

International bargaining can be tough—and in the heat of the moment minor or major concessions may be made in wages, labour standards

BOX 5.2

## The successes and failures of global governance since 1945

Although political negotiations never permitted full realization of the international economic and political architecture as originally proposed, its practical impact was remarkable. From the late 1940s to the early 1970s world economic growth was faster, economic stability greater and unemployment lower than in any comparable period in history. Moreover, more than 70 countries moved from colonial status to political independence, most achieving economic growth rates during the 1960s higher than ever before and often higher than ever since.

Of course, the structures of global governance were far from perfect. The cold war polarized many operations. Inflation was often high. The terms of trade of many primary producing countries fell. The poorest and least developed countries became more marginalized. Various international efforts introduced changes in global governance to tackle these problems.

- The International Development Association was established in 1960 to expand the flows of concessional finance to poor countries.
- UNCTAD was established in 1964 to improve the analysis and negotiation of trade and development issues.

Nonetheless, global governance was recognized to be inadequate, especially for the developing countries. A high-level international group, the Pearson Commission, was established to propose ways to improve aid and development policy. It reported its recommendations in 1969 in Partners in Development.

In 1971 the United States abandoned the Bretton Woods system of fixed exchange rates. In the mid and late 1970s, after two decades of declining oil prices, the price of petroleum almost quadrupled, shifting global income distribution in favour of the oil-producing countries. The suddenness of the adjustment set back the global economy. Output in the OECD economies fell. There was a surge in flows of petro-dollars to non-oil developing

countries, from commercial banks lending with little overall control or supervision. Welcomed at the time, it was later seen to have laid the foundation for the major debt crises and adjustment problems of the 1980s.

A second major international commission was established, the Brandt Commission. Its report in 1980, North-South: A Programme for Survival, showed how industrial and developing countries could share in actions and transfers to stimulate growth in developing countries as a way to achieve a more dynamic global economy. But little of the message was implemented. Instead, the global emphasis shifted to what countries must do on their own, especially in implementing liberalization and adjustment. The need for complementary action by the international community was muted. Debt in the poorest developing countries rose rapidly, commodity prices fell, and aid remained far below commitments, especially for the least developed countries.

There followed a lost decade for development in most of Latin America and Sub-Saharan Africa. Per capita income fell in more than 40 countries in the two regions, often with serious human setbacks for large parts of the population. School enrolment ratios fell in 20 countries.

None of these results can be blamed entirely on the inadequacies of global governance. But the fact remains that since 1980 the majority of countries in Sub-Saharan Africa, many in Latin America and most of those in transition have experienced disastrous failures in growth, often with serious increases in poverty and setbacks in human security. Although there have been some improvements over the 1990s, per capita income in some 40 developing countries is still less than it was 20 or more years ago. The economic decline in many of these countries has already been much worse than anything felt by the industrial countries during the Great Depression.

Source: Hag and others 1995; Rodrik 1999.

Multinational
corporations need to be
brought within the frame
of global governance, not
just the patchwork of
national laws, rules and
regulations

and environmental regulations. One way to avoid these pressures is to establish regional frameworks of minimum standards and to strengthen regional agreements to work within them. Labour standards need to support the abilities of people to provide care for their families and communities—not to have global competition undermine them. Mercosur and the European Union have taken steps in this direction.

Such agreements, carefully defined, can raise living standards and protect the environment, without setting back employment or discouraging foreign investment. Collective regional action can ensure that the decisions are based on the needs of people in the countries concerned.

DEVELOP A GLOBAL CODE OF CONDUCTION MULTINATIONAL CORPORATIONS—AND A GLOBAL FORUM FOR THEIR MONITORING

Multinational corporations are already a dominant part of the global economy—yet many of their actions go unrecorded and unaccounted. They must, however, go far beyond reporting just to their shareholders. They need to be brought within the frame of global governance, not just the patchwork of national laws, rules and regulations.

Because of the activism of NGOs and other institutions of civil society, many multinational corporations are taking their social responsibili-

ties more seriously. Mattel, the toy-producing enterprise, and Disney World, the entertainment giant, have codes of conduct for their plants in Asia. Mattel is the only multinational corporation in China that has won the Social Accountability 8000—a certificate of workplace standards that Asia Monitor, a watchdog NGO, calls for. Disney has done more than 10,000 inspections to ensure proper working conditions for its workers in Asia.

Codes of conduct have moved from vague promises to detailed rules, with the best codes now monitored by outside auditors (box 5.3). But multinationals should be socially responsible from the beginning, not only after having been caught neglecting responsibilities. Codes of conduct should also be developed for banks and financial institutions, covering secrety and risk assessment.

Incentives and publicity can help The Council for Economic Priorities, a US-based NGO, gives annual awards and public recognition to Fortune 500 companies demonstrating exceptional performance in community partnership, employee empowerment and gender equity, environmental stewardship, social mission and human rights.

But multinational corporations are too important and too dominant a part of the global economy for voluntary codes to be enough. Globally agreed principles of performance are needed for:

#### ESPECIAL CONTRIBUTION

## Partnership with the United Nations

Even as communications, transportation and technology are driving global economic expansion, headway on poverty is not keeping pace. It is as if globalization is in tast-forward, and the world's ability to understand and react to it is in slow motion.

But there are promising signs.

First is the ascendance of new means for global progress—the emergence of a more vibrant and engaged civil society. The private sector is another growing force for progress. Private investment in developing countries now dwarfs foreign assistance as a source of resources for progress.

On the other hand, governments are tinancially and politically challenged as never before. And increasingly, the expertise of new global challenges resides outside government.

All of these trends point us towards the need and potential for public private partnerships. These kinds of partnership are urgently needed as government assistance is cut even as the demands and needs for international cooperation grow

While the private sector, trade and investment hold promise for broad progress in the future, too few countries and sectors are benefiting from globalization. Worldwide economic progress must address sustainable human development.

That is why the UNDP and its UN colleagues are ever-more important. All those who care about the world around them must care about and support the United Nations. The United Nations is the place where nations work together

to address global issues, protect the environment, eliminate poverty, empower women and promote children's health. And the United Nations needs the support of all sectors—business, government, NGOs and the philanthropic world

Secretary General Kofi Annan is doing all that he can to make the United Nations a better, more responsive and more open institution. It is up to the rest of us to join him in rededicating our support for the United Nations and its efforts to create a more peaceful, prosperous and poverty-tree world.

Ted Turner
Founder, CNN

- Human concerns—to ensure compliance with labour standards and human rights.
- Economic efficiency—to ensure fair trade and competitive markets.
- Environmental sustainability—to avoid degradation and pollution.

Also needed is a global forum to bring multinational corporations into open debate with other parts of the global communityunions, NGOs and government. The results could be practical and positive. The first major conference hosted by the UK-based Ethical Trading Initiative, in London at the end of 1998, brought together hundreds of people from a range of companies, trade unions and NGOs to discuss fair trade issues and company codes of conduct. Six of the nine UK companies among the top 100 multinationals now have codes in draft. In the space of a few years, the fair trade movement and the promotion of fairly traded products have gone from the margin to the mainstream in promoting labour rights, and retail sales of fairly traded goods are worth more than \$250 million in Europe alone. This could be replicated at the global level in many ways.

STRENGTHEN THE GLOBAL COMMITMENT TO HUMANE GOVERNANCE

People's expanding awareness of their connections with the wider world is part of globalization. Securing political support for more humane global governance will depend on increasing that awareness even more—and on making people conscious of their being citizens of the world, not just their countries.

Many things already contribute to a sense of global responsibility:

- Education, especially the opportunity for young people to learn about the lives and situations of people in other parts of the world.
- The media's treatment of international news and events, explaining them from the viewpoints of other countries.
- Networks of NGOs, such as the Third World Network and the UN-NGO Forum.
- Trade union activities focusing on global issues.
- Opportunities to study abroad and to travel and work with people from other countries.

- Interactions in professional groups.
- Parliamentary, religious and other groups committed to strengthening international understanding and exchange.

And these are just a start (box 5.4).

## PROTECTING HUMAN SECURITY IN ECONOMIC CRISIS

The biggest human setbacks of the past two years emanate from the Asian economic crisis. The crisis has already stimulated strong support from the World Bank and the UN system in response to human needs in the countries

#### BOX 5.3

## Social auditing of multinational corporations

The demand for social auditing—a thorough check as to whether multinationals are living up to their social responsibilities—is on the rise. In addition to emerging social auditors, accounting firms such as Deloitte & Touche, PricewaterhouseCoopers and Ernst & Young are also carrying out social auditing.

Last year 1,500 inspections were done in the Guangdong province of China, where there is a large concentration of multinationals. Nike has said that it would arrange for inspections of all its plants worldwide. At the same time Nike has raised the salaries of workers hurt by currency devaluation, increased its minimum working age to 18 and switched to less toxic glues. Mattel has also worked hard. Independent auditors have paid visits to its factories and those of its suppliers, and local activists play a role in its social auditing.

Source DECD 1999a.

#### BOX 5.4

## Globalization without Poverty-a European initiative

The Council of Europe, with 40 member states, recently launched Globalization without Poverty. This initiative brings together national governments, intergovernmental organizations, NGOs, parliamentarians, local authorities, the media and communications agencies in joint efforts to renew the commitment in Europe to global poverty eradication. The permanent North-South Centre of the Council of Europe, based in Lisbon, is the secretariat for these efforts.

The campaign aims to promote the idea of social inclusiveness in Europe and new concepts of global citizenship that focus on the rights and responsibilities of citizens living in a global society. Some initiatives, such as the Action Week against Poverty, will be Europe-wide; many others are national or local. The project aims to remind people, in line with the overall policy of the Council of

Europe, that extreme poverty and social exclusion are a denial of human rights.

One initiative, the Global Forum on Poverty Eradication, has been inspired by the work of the Forum of the Poor in Thailand. It aims to listen to—and learn from—the experiences of the poor, both in Europe and in the South. Its goal is to develop an agenda for action that will contain recommendations and proposals on how extreme poverty can be eradicated and especially on how societies can be mobilized to achieve this goal.

By emphasizing poverty eradication on a global scale, the forum attempts to offset ideas of personal insecurity and "Fortress" Europe as a response to European inwardness in thought and action. The campaign message: "Europe is not a planet, but part of One World, and that creates both opportunities and responsibilities."

Source Human Development Report Office

directly affected. More important for the long run, it has stirred a major rethinking of the improvements needed in global governance to avoid recurrence and further contagion.

#### REDUCING FINANCIAL INSECURITY

Extremes of vulnerability are a systemic problem of financial liberalization on a global scale and call for new global measures of prevention and preparedness. Already the economic costs and human consequences of these setbacks add up to an important agenda of priorities.

Developing and adopting new international codes of conduct for banks and financial institutions, improving information and transparency and enhancing international financial supervision and regulation are all part of the new consensus. So is recognition of the IMF's need for increased financial resources to enable it to act more quickly and preemptively as lender of last resort. Such resources could be obtained by increasing government financial commitments to the IMF, enhancing the use of IMF special drawing rights (SDRs) or selling some of its gold holdings.

Those who balk at the political difficulties of getting agreement to such measures should recall the risks and costs of not doing so. The willingness of the United States to act as lender of last resort to Mexico in 1994–95, and the speed of its support, did much to limit the depth and contagion of the Mexican financial crisis and to achieve rapid recovery. Money alone is not enough, however. Financial support must be accompanied by economic reform and restructuring—taking account of human goals, not just economic and financial ones.

#### PREVENTING FUTURE FINANCIAL CRISES

The financial crises of the 1990s have been systemic—with finance surging in and out of countries at a speed and volume beyond the capacity of any country on its own to control.

In addition to the measures to reduce financial insecurity, poor countries need special support. A recent UN task force on financial architecture proposed various measures to help prevent further crisis and contagion, including:

- Removing the requirement that countries liberalize capital accounts as a condition for borrowing. The extent and phasing of capital account liberalization should be a matter for each developing or transition economy to decide on the basis of its needs and capacities. International pressures for abrupt or premature liberalization have often proved counterproductive.
- Incorporating standstill provisions into the rules for borrowing from the international financial institutions. These would give countries under financial pressure the right to delay debt servicing.
- Developing regional and subregional initiatives to support monetary and financial management. Stronger regional collective action could be stabilizing—pooling reserve funds, strengthening financial monitoring, maintaining open trade even under pressure. The experience of Western Europe, from the Payments Union in the early postwar years to the euro today, underscores the value of such arrangements.
- Increasing technical support. The cost of processing all the information required for financial negotiation and decision-making is very high for small and poor countries. The international institutions have a special responsibility to help countries gain rapid and easy access to such information and analysis.

# PROTECTING PEOPLE DURING PERIODS OF CRISIS AND ADJUSTMENT

Time and time again when under economic pressure, countries find themselves sacrificing the needs of their children on the altar of economic orthodoxy—cutting schools, clinics and hospitals to balance their budgets and pay their debts. The challenge is greatest in poor countries, where the coverage of schools and health services is already limited. By cutting the investment budget, countries ease the pressures on both capital and recurrent accounts—but at the cost of postponing the vital goals of health and education for all.

This spotlights the importance of adopting long-run human goals—and maintaining progress towards them, with international support to make this possible. Countries should be

Stronger regional

stabilizing—pooling

strengthening financial

monitoring, maintaining

open trade even under

reserve funds.

pressure

collective action could be

encouraged to set goals and dates for achieving universal access to education and health—as set out in the World Summit for Social Development, in other global conferences of the 1990s and in the Development Assistance Committee goals for the 21st century. At a minimum, all countries should be encouraged to make some progress towards these goals each year—no matter how severe the economic pressures.

Stronger international support is needed for protecting people in crisis. The way industrial countries respond to a flood or earthquake within their borders is instructive here. It would be unthinkable and politically unacceptable in an industrial country today to allow a natural disaster to leave citizens without health services or children without schooling for years on end. Yet this happens often in developing countries. A lender of last resort for social protection would thus be useful—perhaps as a special window of the World Bank.

# REDUCING OTHER CAUSES OF HUMAN INSECURITY

Threats to human security are being exacerbated by globalization in other ways. Three threats show the range of actions required.

#### CONTROLLING GLOBAL CRIME

The virulent synergy between globalization and organized crime calls for new global instruments to back national actions and control the international links. An international convention against transnational organized crime is under preparation. Among the key measures:

- Encouraging cooperation in law enforcement and surveillance, with support for advanced investigative techniques.
- Enhancing international judicial cooperation, including the transfer of cases from one jurisdiction to another and the use of videoconferencing for cross-examination.
- Obliging states to develop effective programmes for protecting witnesses and legal professionals.
- Criminalizing money laundering and developing cooperative actions to track and prevent it.

Special actions are needed to deal with trafficking in women and children and smuggling migrants and firearms.

The media, NGOs and other institutions of civil society have played an important role in uncovering the untold story of human trafficking and forcing action. Needed now are more formal international processes of reporting and reviewing actions. Also needed are international negotiations between labour-sending and labour-receiving countries and with international organizations. Such negotiations should lead to codes of conduct both for labour-sending and for labour-receiving countries, laws for eliminating exploitation of migrant workers and violations of their human rights, and severe penalties for traffickers (box 5.5). The UN Convention for the Suppression of Traffic in Persons and the Exploitation of the Prostitution of Others, approved by the General Assembly in 1949, focuses on trafficking as a criminal commercial enterprise. Only 70 countries have adopted this convention.

#### PROTECTING CULTURAL DIVERSITY

Culture, community and human security are intertwined—but too often undermined by the invasions of globalization. The World Commission on Culture and Development recognized the broad principle of protecting cultural diversity while encouraging cultural exchange. Balancing the two is difficult and controversial—but countries wishing to protect their cultural heritage need to be permitted to do so.

Four examples of actions:

- Regional and private efforts could encourage much more two-way cultural communication so that films, music, literature and television programming flow between and within developing regions, not just to them from industrial countries.
- Policy-makers have to rethink state, community and international institutions and policies to permit local populations to choose their languages and way of life. At the same time institutions should be created that encourage a dialogue between leaders of different cultural groups to negotiate exchanges and promote better mutual understanding.
- An international forum could be held on international violence and pornography—

Culture, community and human security are intertwined—but too often undermined by the invasions of globalization

whether in videos, television programming or interactive games and services—and on national efforts to moderate and control these activities and safeguard children from their influence.

 New partnerships between governments, corporations, private voluntary associations and other stakeholders should be developed. The effects of global markets on local cultural industries, both good and bad, should be more clearly recognized, so that policy can protect and enhance their cultural and economic flowering.

#### PRESERVING THE ENVIRONMENT

Despite widespread public support for environmental action, the driving forces of globalization still put profit before environmental protection, preservation and sustainability. The international body charged with building a bridge between environmental and trade policy, the World Trade Organization's committee on trade and environment, has focused mostly on fitting environmental concerns into existing trade regimes, not on seeking a true synergy between environment and trade as equal policy objectives. The committee sees its role as limiting unilateral state actions in the name of environmental protection to protect the trading system—not as creating a paradigm shift from a negative trade-environment relationship to a positive one, a relationship that promotes sustainable trade, investment and growth.

The committee has focused on some important questions: Should WTO members agree on general exemptions for trade-restricting measures in multilateral environmental agreements? And how can eco-labelling schemes be protected and not classed as non-tariff trade barriers? But other issues demand attention: How can trade measures encourage countries to remove the perverse subsidies for energy, chemicals and water that distort trade and damage the environment? And how can they lead countries to internalize the environmental costs of production? Why not establish a "green round" on international trade to coordinate joint actions on eliminating environmentally damaging subsidies and internalizing environmental costs?

#### NARROWING GLOBAL GAPS

Nearly 30 years ago the Pearson Commission report began with the recognition that "the widening gap between the developed and the developing countries has become the central problem of our times." Today, global inequalities in income and living standards have reached grotesque proportions. The gap in per capita income (GNP) between the countries with the

BOX 5.5

#### Global crime—the international response

The risk to the positive aspects of globalization posed by the growth of global organized crime has been recognized at the highest levels: it was on the agenda for the G-7 meeting in Birmingham a couple of years ago. Such recognition is critical, because the response to global crime must be global, not national.

Con men operating out of Amsterdam sell bogus US securities by telephone to Germans, the operation is controlled by an Englishman resident in Monaco, with his profits in Panama. Which police force should investigate? In which jurisdiction should a prosecution be mounted? There may even be a question about whether a crime has been committed, although if all the actions had taken place in a single country there would be little doubt.

The first principle of a global response to crime is cooperation. Law enforcement agencies, police, prosecutors and intelligence services need to work with their opposite numbers across borders, breaking down what is often generations of suspicion and even enmity. This is not easy, but there are precedents at the national level. A crime in the United States may be investigated by city, state or federal police; among the federal agencies may be the Federal Bureau of Investigation, the Drug Enforcement Administration, the Secret Service, US Customs and the Internal Revenue Service. These groups do not always get on with each other, but they have learned to cooperate to attack crime that cuts across their jurisdictions and competencies.

Part of the suspicion that law enforcement agencies in the developed world have of their counterparts elsewhere is based on corruption. The traffic policeman in Mexico, the customs officer in Nigeria, the prosecutor in Russia may all face a choice between operating honestly or feeding their family. When compared with the needs of education and health care, support for the

law enforcement budget may not seem a high priority, but short-term savings may result in heavy long-term costs.

The second principle is effective and appropriate regulation. When a political system changes from a centrally planned economy or a police state to a liberal, free market, democratic society, there are huge pressures, from within and from the international community, to remove oppressive regulations, but there is less push to replace them with the sort of legal framework and institutions that have grown up over centuries in societies that have long had such political systems. This is a dangerous mistake.

For example, encouraging an indigenous banking system is an important development goal, and bank secrecy legislation may seem a good short cut. But without a strong bank regulatory framework, and an institution with the muscle to impose it, the result will be a flood of dirty money followed by bank failures. The end result is bailout costs for the central bank and loss of international market credibility for the future.

Similarly, privatization without a strong system of corporate law, and a judicial system that is an effective administrator and guarantor of its application, becomes a lottery. Sometimes a sound enterprise, a good local partner and management team, and consistent government regulation align to produce a spectacular investment success. But more often cronyism in the privatization process and abuse of minority shareholder interests lead to failure, and the local courts offer little hope of redress.

Comparing the goal of increasing economic freedom with imposing new bureaucratic contraints is an unequal battle. But the liberalization of the economic and political system must march in lock-step with the growth of laws and the institutions that administer them. New freedoms bring new responsibilities.

Source Helsby 1999

richest fifth of the world's people and those with the poorest fifth widened from 30 to 1 in 1960, to 60 to 1 in 1990, to 74 to 1 in 1995. The marginalization of the least developed countries continues, accelerating as a result of the Asian crisis.

Narrowing such gaps is the unlisted item on the global agenda. Extremes of inequality permeate and poison globalization and polarize many reasonable and desirable attempts to manage it better. The issues of global inequality are too fundamental to be swept under the carpet. On the eve of the 21st century, with the newfound awareness of globalization's possibilities, new approaches are needed:

- Taking consistent international actions to support faster growth, and adopting stronger measures to support pro-poor growth in poorer countries.
- Removing constraints on poor countries in trade, investment and technology.
- Refocusing aid to support poverty reduction, especially in the poorest and least developed countries.
- Accelerating debt relief for the highly indebted poor countries.

These proposals are not new, but they are rarely pursued with the energy and resolve required, nor with the clear recognition that the extremes between the richest and poorest countries are counter-productive for the very process of globalization. One of the main reasons globalization stalled in the early 20th century was rising global inequalities.

Pro-poor growth is needed-both for reducing poverty and for making growth a stronger and more indigenous process. Particularly important is accelerating growth in the poorest and least developed countries, with growth rates of at least 3% per capita maintained for three decades. An important step would be to establish an international transfer mechanism to encourage resource flows to poor countries-through private investment and through purposeful allocation of global revenues derived from taxing pollution or charging for use of the global commons (see below). Another would be to create an international task force to focus on possible actions to address the widening gaps between rich and poor countries, including setting time-bound goals for narrowing the gaps between the industrial countries and the poorest and least developed countries.

As Professor Jan Tinbergen, the first Nobel Prize winner in economics, wrote a few years ago, "there should also be redistribution at the international level through development cooperation. . . . As the world economy becomes increasingly integrated, so the redistribution of world income should become similar to that within well-governed nations" (Human Development Report 1994, p. 88).

PROMOTING FAIRER TRADE,
ESPECIALLY FOR THE POOREST COUNTRIES

Both developing and developed countries need to do more to ensure greater benefits for Extremes of inequality
permeate and poison
globalization and polarize
many reasonable and
desirable attempts to
manage it better

BOX 5.6

#### Renegotiating Lomé—one size doesn't fit all

For almost 25 years this pioneering treaty of development cooperation guaranteed the African, Caribbean and Pacific (ACP) states financial aid and preferential market access to Europe. The current Lomé convention will expire in February 2000. The European Union and 71 ACP states are engaged in negotiations to renew it.

The first of four treaties under this framework was signed in Lomé, the capital of Togo, in 1975. It started out with high ideals. Its fundamental principles called for equality between the partners, respect for their sovereignty, mutual interest and interdependence and the right of each partner to determine its own political, social, cultural and economic policy options.

The European Union is suggesting substantial changes to the Lomé convention. European policy-makers argue that Lomé did not work. They say that the convention did little to pull the ACP states out of poverty. Moreover, European policy priorities have shitted Donor fatigue, new partners in Eastern Europe and budgetary constraints due to the strict Maastricht criteria contributed to a change in European attitude towards the ACP states. In addition, the European Union claims that Lomé is not in accord with the rules of the World Trade Organization.

If the European Union's plans are implemented, a large group of ACP states may experience a massive deterioration in market access to Europe, reversing transfer of payments from some ACP countries to the European Union.

Under these plans, free trade areas, private investment and conditionality may replace preferential market access and unconditional financial aid. The European Union intends to maintain Lomé preferences for the 41 least developed ACP countries. But the 30 other developing countries may be given the choice of forming a free trade area with the European Union or joining the General System of Preferences.

What can be done?

- Europeans must not abandon their commitments to the ACP states. They should realize that Lomé applied one set of policies to 71 different countries. This one-size-fits-all approach eventually did not work. A renewal of the Lomé treaty must therefore recognize the political, economic and cultural diversity of the ACP states.
- Previously, financial support was given as a lump sum to ACP governments. A future Lomé treaty should direct resources to promote specific sectors or to build institutions. This can be achieved only when donor and recipient countries cooperate closely.
- The European Union should pursue a mix of policies. Free trade areas can benefit sectors that can compete. More vulnerable sectors, such as agriculture, should either receive financial aid or be temporarily exempted from trade liberalization.

Source. Kennan and Stevens 1997.

developing countries in trade, improving market access and the terms of trade, especially for the poorest and least developed countries (box 5.6). Trade liberalization can benefit developing countries, and they should in principle be willing to engage in new multilateral negotiations. But before new global trade talks start, developing countries must be assured that previous agreements and promises will be kept. The Multi-Fibre Arrangement must be eliminated, as promised by developed countries. And the use of antidumping measures against the poorest countries must be curbed.

Speeding the elimination of domestic agricultural support and export subsidies in the industrial countries would help ensure access to markets for agricultural products. And regu-

BOX 5 7

#### Developing countries and tradeactive participation in the millennium round

Five years after the end of the Uruguay Round, preparations for a new round of multilateral trade negotiations are under way Negotiations might deal not only with the reduction of tariff and non tariff barriers in such critical areas as textiles and agriculture. They could focus also on non-trade issues such as environmental and labour standards and competition rules

Developing countries need to understand these developments, be ahead and not behind them, identify areas of key interest and help shape more torcetully the global trade structure. Trade liberalization can, after all, be a win-win situation.

Developing countries could consider these policy and strategy options for the next round of multilateral trade negotia-

- · Review and implement existing agreements before new agreements Before negotiators talk about such issues as environmental or labour standards, they need to make sure that all parties keep the commitments made in the Uruguay Round. For example, OECD countries need to implement the Agreement on Textiles and Clothing to free developing countries from the regime of the Multi-Fibre Arrangement.
- · Talk about all property rights. Property rights include intellectual property rights as well as rights to emit carbon into the atmosphere. Many rich countries

seem to have overused their right to pollute. If they want to continue to do so. developing countries could link these property rights in trade negotiations and demand compensation. An aggressive pursuit of property rights could yield the developing countries both potential economic benefits and negotiating leverage

- · Win-tein em trommental concessions and trade liberalization. Broadening the negotiating agenda to include issues such as the environment does not have to be disadvantageous to developing countries. It can also open opportunities. Countries with significant environmental assets train forests in Brazil, Cameroon, the Democratic Republic of the Congo, Costa Rica, Indonesia, Malaysia, Thailand) could make concessions to achieve benefits in other areas. In exchange for protecting or even rebuilding rain forests, developing countries could ask OECD countries to level the playing field in trade, investment or antidumping measures
- · Together, if you can Developing countries need to get better organized and negotiate in groups. Their political leverage increased during the Uruguay Round Today, developing countries account for 30% of world trade. Regional or sectoral alliances may belp developing countries increase their standing in trade negotiations

Source: Whalley 1999.

lations governing food safety, animal and plant health and the safety of farm workers need to be implemented in ways that minimize the risk that they will be used as protectionist measures—sav. bv:

- Devising multilateral standards encouraging the spread of mutual recognition and equivalency agreements.
- Requiring product labels that include the origin and attributes of each product.
- Ensuring credible regulatory agencies that are separate from those responsible for farm support programmes.

International support to help poor countries expand agricultural exports would offer triple benefits. It would encourage production in areas of the world with many comparative advantages and much lower use of fertilizers and pesticides than is typical in industrial countries. It would help maintain crop and seed diversity. And it would encourage exports and production as a step towards economic development in poor countries.

A new round of trade negotiations—the millenium round—is in the works (box 5.7). Much is at stake, and developing countries need to be ahead of the issues, not behind them.

REDUCING THE DEBT OF THE POOREST COUNTRIES

Slow progress in tackling the accumulated debt of the 41 heavily indebted poor countries (HIPCs) is one of the clearest examples of how globalization has been failing the poorest and least developed countries (box 5.8). For several vears most commentators have agreed that the debt of these countries is excessive and unpayable. Yet the actions have so far been minute in relation to the needs.

The debt burden has undermined growth, health and education. Only 2 HIPCs have achieved growth rates of more than 2% per capita since 1980, while 9 did so between 1965 and 1980. Debt service payments exceed annual expenditure on health and education in 9 HIPCs, and they exceed health spending in 29, including 23 in Sub-Saharan Africa (table 5.1). Tanzania's debt service payments are nine times what it spends on primary health care and four times what it spends on primary education.

Under the HIPC initiative, it takes six years for a country to become eligible for debt relief. This period should be sharply reduced, by half or more. The debt sustainability ratio—the amount of debt that is deemed manageable by an indebted country—must also be lowered, from 200–250% of a country's annual exports to 100% or less (table 5.2). Debt payments are deemed bearable at 20–25% of a country's annual exports. This should be reduced to 10% or less. In short, the poorest countries need more support and more breathing space to restore growth and accelerate human development.

The sum required to fund the HIPC initiative has been officially estimated at \$7 billion less than 5% of the \$170 billion mobilized for East Asia and Brazil (though it is needed on grant not loan terms). One argument against faster debt relief is that the resources for it would have to come from other concessional funds, "robbing Peter to pay Paul". This need not be. Debt relief for the poorest countries could and should be financed from new and additional resources. These could come from sales of IMF gold or new allocations of SDRseven from special contributions, just as for the bailout of the Long-Term Capital Management fund. By the test of human development, Sub-Saharan countries and the other HIPCs deserve more support.

MORE AID, BETTER ALLOCATED, MORE USEFUL

Although official development assistance (ODA) has fallen since 1994 (table 5.3), there are some signs of recovery. Six donor countries of 21 increased their ODA in 1997, Canada and the United Kingdom by the most. And four continue to exceed the 0.7% of GNP target by an easy margin—Denmark, the Netherlands, Norway and Sweden. The increases will help offset the much faster decline in aid budgets in relation to other public expenditures.

Implementing the commitments to the least developed countries remains one of the highest priorities, especially the commitment that each donor allocate a minimum of 0.15% of its GNP to these countries. Few of the poorest countries have much chance of receiving substantial foreign direct investment, so they depend on aid,

especially for expanding basic health and education and raising growth rates.

A MULTILATERAL AGREEMENT ON INVESTMENT—FOR PEOPLE

Negotiations on the Multilateral Agreement on Investment collapsed—a casualty of unreconciled differences of philosophy among developed countries. More serious was the secrecy surrounding the negotiations and the failure to bring in all the countries involved. Negotiations on a new agreement must start with a more equitable process and clearer acceptance of the need to achieve equitable results not just for capital—but for people.

The process of negotiating the agreement will determine its success. Talks need to be open. Participation of developing countries and of civil society is crucial. National treatment of capital must be tied to the concept of sustainable development. Most-favored-nation principles for investment do not preclude

BOX 5 8

#### Debt-a need for accelerated action

External debt continues to be a heavy burden for developing countries. In 1997 the total debt of developing countries reached almost \$2.2 trillion. Hardest hit have been the 41 heavily indebted poor countries (HIPCs), 33 of them in Africa. Their debt burden, \$245 billion in 1996, drains public budgets, absorbs resources needed for human development and inhibits economic growth.

Since 1980 the debt of the HIPCs has more than tripled, two-thirds the result of arrears unpaid or earlier debt. Moreover, the nature of debt has changed. In 1980 more than halt of all debt was owed to private creditors—in 1997 barely a fifth. Today's debt crisis is about official debt—increasingly debt owed to multilateral institutions such as the International Monetary Fund and the World Bank. The shift from private debt to official and multilateral debt opens the door for policy makers to find solutions to the debt crisis.

• An acceleration of debt forgiveness under the HIPC initiative is essential. Too few of the poorest countries are eligible under the initiative, which may leave some countries in a very tight spot. The envisaged

period of six years of good performance before eligibility should be reduced to three years or even less, provided debtor countries work closely with the World Bank and the IMF and follow agreed principles.

- In some cases partial or total debt forgiveness by the Paris Club is also needed Denmark's cancellation of developing country debt worth \$635 million and Germany's debt initiative are leading examples for OECD countries. Other industrial countries have forgiven debt arising from earlier aid support—but not all.
- Showing how debt payments squeeze a country's capacity to provide education and health to all its children would help to bring home to the general public the wider significance of the debt problem—and the urgent need for action.
- Cancellation of all debt of the most impoverished developing countries is the objective pursued by the Jubilee 2000 initiative. Sponsored by many churches and NGOs, the initiative links the year 2000 with the biblical concept of debt forgiveness.

Source UNCTAD 1998b UN 1998b

codes of conduct for big corporations. Governments must retain full discretion to set environmental and labour standards.

#### NARROWING TECHNOLOGY GAPS

In an era of sweeping technological advance, it is inexcusable that human poverty should persist—and that the technological gaps are widening. Poor people and countries need a better

TABLE 5.1

Eight heavily indebted poor countries, 1995

				Public expenditure				
	Externa	al debt		On	On	On		
Country	US\$ billions	As % of GNP	Debt service as % of GNP	education (% of GNP) *	health (% of GDP)*	military (% of GDP)		
Nicaragua	10	670	19	4	4	2		
Angola	12	501	20	90	4	3		
Guyana	2	394	20	5	00	1		
Guinea-Bissau	1	380	7	6.0	1	3		
Congo	6	350	11	6	2	3		
Mozambique Congo, Dem.	6	327	9	6	5	5		
Rep. of the	13	242	0.5	4.0	0.2	0.3		
Mauritania	2	231	12	5	2	3		

a. Data are for most recent year available during 1990–95.
 Source World Bank 1998c

TABLE 5.2 External debt of the 41 heavily indebted poor countries, 1992–96									
	1992	1993	1994	1995	1996				
Total debt (US\$ billions)	229	235	247	254	245				
Debt service (US\$ billions)	10	8	9	12	11				
Debt service/exports (%)	21	17	19	20	16				
Debt stocks/exports (%)	461	495	493	431	344				

Source UN 1998b.

TABLE 5.3  Who gets aid? (official development assistance in current US\$	billions,	except wh	nere othe	rwise sp	ecified)
1088	1003	1994	1995	1996	1997

	1988	1993	1994	1995	1996	1997
Net ODA	48	56	60	60	58	50
Bilateral	37	39	41	41	39	32
Multilaterai	11	17	19	19	19	18
Net ODA (1995 US\$ billions) Share of ODA to least developed	61	59	62	60	57	48
countries (%)	28	27	27	28	24	27
ODA to least developed countries	13	15	16	17	14	14
ODA to five largest recipients						
China	2.5	3.3	3.3	3.5	2.6	2.0
Egypt	1.9	2.4	2.7	2.0	2.2	2.0
India	2.4	1.5	2.3	1.7	1.9	1.7
	1.5	1.3	1.3	0,3	2.2	**
Israel Bangladesh	2.2	1.4	1.8	1.3	1.3	1.0

Source OECD 1996a and 1999a

deal from technology's breakthroughs.

- Global governance of intellectual property rights under the agreement on Trade-Related Aspects of Intellectual Property Rights, or TRIPS, must be broadly and fully reviewed to create a system that does not block developing countries from knowledge or threaten food security, indigenous knowledge, biosafety and access to health care.
- The TRIPS agreement must recognize the rights of local communities to their traditional and indigenous knowledge—and encourage fair and just compensation for the use of this knowledge.
- Consumers and producers in developing countries must be protected. Price controls should be permitted or encouraged on certain patented products for production by poor farmers and for basic health and education. Price controls are especially important for pharmaceutical products, with treatments for HIV/AIDS an obvious example.
- Governance of global communications especially the Internet—must be broadened to include the very strong interests of developing countries in decisions on Internet protocols, taxation, domain name allocation and telephony costs.
- Public investment is needed in technologies to meet the needs of poor people and countries, from drought-resistant, robust seeds to humidity-resistant, solar-powered computers.
- New funding mechanisms should be created to ensure that the information revolution leads to human development, not human polarization. Two proposals—a bit tax and a patent tax—would raise funds from those who already have access to technology and use them to help extend the benefits more widely.

SPECIFIC ACTIONS TO STRENGTHEN THE BARGAINING POSITION OF POOR COUNTRIES IN GLOBAL GOVERNANCE

Large inequalities of economic power and influence are embedded in most international institutions. Often this is justified on the grounds that those with the largest stake in the outcomes have most to lose—and that they must have greater influence to ensure "respon-

sible" decisions. If stake means financial outcome, this may be true. But if stake refers to the number of people affected, often hurt, this justification looks very thin (table 5.4).

Voting arrangements need to be revised—for fairness, efficiency and political viability. If they are not, those shut out may change their minds about the virtues of participating in the system. There must also be some agreement on the need to give much more attention to the interests of the poor countries and, over time, to narrow the gaps between them and the better-off countries.

Improving institutional accountability is a priority in the reform of international gover-

nance. Decision-making in international trade and finance needs to be more transparent, and independent evaluations of international public policies can be a first step towards increased accountability. The World Bank's Operations Evaluation Department and the IMF's independent external evaluation of its Enhanced Structural Adjustment Facility programmes are first steps in the right direction. Other priorities:

 Establishing an ombudsman mechanism within the WTO, World Bank and IMF to investigate cases of alleged bias and injustice in their operations.

Institu	rtion	Membersh.p	Share of world GDP (%) 1997	Share of world population (%) 1997
P-5	Security Council	China, France, Russ an Federation, United Kingdom, United States	40.9	30 6
G-7	Western economic powers	Canada, France, Germany, Italy, Japan, United Kingdom, United States	64.0	11.8
G-10	Western economic powers	Belgium, Canada, France, Germany, Italy, Japan, Netherlands, Sweden, Switzerland, United Kingdom, United States	67.8	12.5
7-22	Westem economic powers and emerging markets	Argentina, Australia, Brazil, Canada, China, France, Germany, Hong Kong (China, SAR), India, indonesia italy, Japan, Republic of Korea, Malaysia, Mexico, Poland, Russian Federation, Singapore, South Africa, Thailand, United Kingdom, United States	81.7	64.8
1 4 1	Major developing countries	Algeria, Argentina, Brazil Colombia, Democratic Republic of the Cori Côte d'Ivoire, Egypt, Ethiopia, Gabon, Ghana, Guaternaia, India, Islan Republic of Iran, Lebanon, Mexico, Nigeria, Pakistan, Peru, Philippine Sri Lanka, Syrian Arab Republic, Trinidad and Tobago, Venezuela, Yu-	nic S,	34.6
i //	Developing and transition countries	Afghanistan, Algeria, Angola, Antigua and Barbuda, Argentina, Bahamas, Bahrain, Bangladesh, Barbados, Bei ze, Benin, Bhutan, Bolivia, Boshia and Herzegovina, Botswana, Brazil, Brune Darussalam Burkina Faso, Burundi, Cambodia, Cameroon, Cape Verde, Central African Republic, Chad, Chile, China, Colombia, Comoros, Congo, Democratic Republic of the Congo, Costa Rica, Côte d'Ivoire, Cuba, Cyprus, Djibout Dominica Dominican Republic, Ecuador, Egypt, El Salvador, Equatorial Guinea, Entrea, Ethiopia, Fij, Gabon, Gambia, Ghana, Grenada, Guatemaia, Guinea, Estibea, Bissau, Guyana, Haiti, Honduras, India, Indonesia, islamic Republic of Iran, Iraq, Jama ca, Jordan, Kenya, Democratic People's Republic of Korea, Kuwait, Lao Pi Democratic Republic, Lebanon Lesotho, Uberia, Utyan Arab Jamahisi Madagasca: Malawi, Malaysia, Maidives, Maii, Malta, Marshail Island Macritania, Maurit us, Federated States of Micronesia, Mongolia, Morocco, Mozambique, Myanmar, Namibia, Nepal, Nicaragua, Niger, Nigeria Oman, Pakistan, Occupied Palestin an territory, Panama, Papua New Guinea, Paraguay, Peru, Phi ppines, Qatar, Romania, Rwa Saint Kits and Nevis Saint cuca. Saint Vincent and the Grenadines Samoa (Western), São Tome and Principe, Saudi Arabia Senegal, Seyd Sierra Leone, Singapore, Solomon Islands, Somalia, South Africa, Si Lisudan, Suriname Swaziland, Syrian Arabia Republic, Umited Republic of Tanzania, Thaland, Togo, Tonga, Trindad and Tobago, Tunisa, Turkhi Uganda, United Arabia En irates. Uruguay, Vanuatu, Venezueia, Viet Nayemen, Yugoslavia, Zambia, Zimbabwe	eople's ya, s, inda, ihelles, anka, enenistan,	76.0

a. Cannot participate in the activities of the G-77.
 Source: Human Development Report Office.

- Encouraging the involvement, formal or informal, of NGOs and non-official professional groups in the discussion and review of proposals and policies, especially those affecting groups underrepresented in the formal structures (box 5.9).
- Adapting legal aid to provide support to and strengthen the bargaining position of weak countries. Legal aid and capacity-building programmes for the poorest countries could increase the participation of poor countries in international trade and financial organizations, allowing them to establish missions and hire experienced staff. Some Latin American countries, backed by two or three members of the European Union, floated the idea of funding a legal centre to help developing countries prepare or defend cases under the WTO's dispute settlement system.
- Setting some long-term goals and broad guidelines for narrowing global income gaps and securing larger shares of the benefits from trade and financial agreements for poor countries and people.

BOX 5.9

#### NGOs and global advocacy

During the 1970s activists were urged to "think globally and act locally". Over the past 10–15 years a vibrant NGO community has emerged in the South with a profound impact on development practice and thinking. Alternative NGO-sponsored conferences took place alongside all the global UN conferences of the 1990s. Activists from both South and North joined to lobby governments and international agencies to give greater priority to the world's poor and marginalized.

In response to lobbying against some of its policies, the World Bank reached out to its NGO critics, which now play a much bigger role in Bank-funded projects. Other changes include the appointment of NGO-liaison officers in most Bank country offices and a greater recognition of the importance and input of NGOs to the Bank's work. NGOs have also held the Bank accountable to its own procedures and policies. NGO submissions to the World Bank Inspection Panels on the Arun III Hydroelectric Project in Nepal weighed heavily in the Bank's decision not to finance the project.

NGOs have put pressure on all the UN agencies as well as governments to follow up on the goals and commitments of the global conferences.

For the Kyoto protocol, NGOs have been pushing for an agreement that will have a significant impact on global greenhouse gas emissions rather than one that settles for cosmetic changes. At the Kyoto meeting NGOs pressured national governments and multilateral agencies to release a 10-point call for action. The declaration forms the basis for ongoing NGO advocacy and lobbying on climate change. Similar declarations have been submitted by a group of NGOs from Eastern and Central Europe. Friends of the Earth and the World Wildlife Fund for Nature have been active in raising awareness about how private sector concerns appear to be dominating the discussions on how the protocol is to be implemented. They have also raised concerns that the final outcome will have no meaningful impact on greenhouse gas emissions.

Source: Human Development Report Office.

Developing countries can do much more to strengthen their own bargaining capacity and positions. Priorities here include:

- Building and strengthening third world and regional collective organizations. There is no developing country group equivalent to the G-7 or to the OECD, even though at times there have been efforts to strengthen such bodies as the G-15, the G-24 or even the G-77.
- Using regional economic arrangements to develop and coordinate common positions in negotiations on economic issues. In Latin America Mercosur and the Andean Community have already proved useful in establishing negotiating positions during trade talks with the United States, Canada and the European Union. In the 1990s the number of regional trade agreements increased significantly. Greater efforts are needed, especially in Sub-Saharan Africa, to transform regional or subregional economic integration schemes into strong platforms of common interest
- Developing regional initiatives on financial and monetary matters. Such initiatives could focus on providing early warning of financial crises, supplementing international resources and formulating structural adjustment programmes while encouraging a move to peer review of national programmes and ensuring that the programmes relate more closely to recipient countries' economic and financial systems.
- Ensuring stronger professional support to the poorest and least developed countries in negotiations, especially those relating to trade, investment and growth prospects and to long-term institutional restructuring. The G-24 research programme offers some support to developing country representatives and decision-makers in trade and finance, but it is still primarily donor-funded and has no full-time or on-site staff. It merits fuller support from developing countries themselves.

START NOW
TO BUILD THE GLOBAL ARCHITECTURE
REQUIRED FOR THE 21ST CENTURY

With the new challenges of globalization, and the need to ensure stronger action on old problems and new, the time has come to rethink the global architecture. Some of the key elements of an improved international architecture:

- A stronger and more coherent UN system, with greater commitment from all countries.
- A global central bank,
- A world investment trust with redistributive functions and transfer mechanism.
- A world environment agency.
- A revised World Trade Organization, fairer and with an expanded mandate.
- An international criminal court with a broader mandate for human rights.
- A broader United Nations, including a twochamber General Assembly to allow for civil society representation.

Earlier Human Development Reports recognized the need for major changes in global governance if human development was to be achieved on a global scale. The recent crises underscored this need and made people and governments more aware of the case for fundamental changes—and more ready to consider them.

New and stronger international institutions of global governance can be seen as global public goods. At the national level, public goods have been recognized as vital when the market has neither the incentive nor the mechanisms to meet a public need. With growing globalization, international public goods are now needed for similar reasons (box 5.10).

This new perspective is much more than a change of terminology. To recognize the need for global goods is to accept the importance of actions of global governance beyond the capacity of individual countries to provide, to establish a rationale for new forms of financial support that countries need to ensure but to recognize also that without special efforts such support may not be forthcoming. These issues become matters for political advocacy and education on globalization, in which all countries have a role and a stake. Five basic elements are needed in a new international architecture of global economic governance.

STRENGTHEN THE UNITED NATIONS SYSTEM, GIVING IT GREATER COHERENCE TO RESPOND TO BROADER NEEDS OF HUMAN SECURITY

More actions have been taken in the past few years to strengthen the UN system than in any previous decade: high-level global conferences to establish goals and commitments, internal reforms to increase focus and efficiency, the creation of a UN Development Group bringing together the development agencies to strengthen field-level action and initiatives to encourage closer working relationships with the World Bank and the IMF.

In parallel with these, the Economic and Social Council (ECOSOC) has adopted several

BOX 5.10

#### Global public goods—the missing element

Earlier we thought the ozone layer was out there. But now it is in here, a key issue on the national policy agendas of most countries. The reason is that to avoid further depletion of the ozone shield, the use of chlorofluorocarbons has to be reduced in every country. The same point can be made tor the atmosphere energy use has to change everywhere to reduce the risk of global warming.

Conversely, health employment and equity, previously thought to be quintessential domestic concerns, now figure or international policy agendas. Take the 1995 World Summit on Social Development, which focused on issues of poverty, employment and social cohesion.

Why this intermingling of concerns and agendas?

- Open borders While borders continue to be important, they have become porous as a result of talling tariffs, loosening capital controls and spreading information technology Openness allows global goods and bads to travel with ever-greater case. So, good health, reduced greenhouse gas emissions and peace and security in all countries matter even more.
- Systemic risks International financial markets produce boom and bust cycles and present inherent risks. If global warming is allowed to proceed, we may face climatic changes with as yet ditticult to predict consequences. And if global inequity continues unchecked, the global social tabric could come under severe strain. Because of the growing number of systemic risks, the international community faces the challenge of staying within limits (sustainable pollution levels), achieving specific targets (for poverty reduction) or providing risk insurance (for countries affected by financial contagion)

• Transnational actors In business and civil society the number of transnational actors has been growing. And these actors are placing more pressure on governments to harmonize policy—such as standardizing market rules for banking supervision or recognizing universal human rights.

These trends turn many national public goods and bads—and place global concerns, notably those about the natural global commons, on national policy agendas. So, the number of global public goods—non-rival and non-excludable—is growing. Non-rivalry means that one person's consumption of a good does not detract from another's enjoyment of it. Non-excludability means that it is difficult and costly, if not impossible, to prevent a person from enjoying a public good once it exists. Peace is one such non-rival, non-excludable public good.

Today's policy-making is ill equipped to handle today's global public good issues. Three major policy deficits exist:

- A purisdictional gap— While the policy issues are global in nature, policy making is still primarily national in focus and scope
- A participation gap—While we are living in a multi actor world, international cooperation is still primarily intergovernmental
- An incentive gap While cooperation works only if it ofters a clear and fair deal to all parties, today's international cooperation is often stalled by concerns about equity and fairness.

Sustainable, broad-based development depends on closing these three gaps—on restocking the toolkit of policy-makers to equip them for cooperating in the provision of global public goods

Source Ray, Grunberg and Stern 1999

Keynes's original proposal was that the global monetary authority should have access to resources equivalent to 50% of world imports

new ways of working, including holding joint meetings with the IMF-World Bank Development Committee and inviting distinguished specialists to address the council. These have been important for enlivening debate and improving relevance in ECOSOC-but the council still has not been given the status of senior decision-making body on economic and social matters as envisaged by its founders. Collective decision-making on economic and social matters remains with a variety of other bodiesthe G-7, the World Bank, the IMF, the WTO. As a result, global decision-making still lacks coherence and geographic balance, with key decisions made in different bodies and no clear mechanism to bring the elements together.

Various suggestions have been made to remedy this. Earlier Human Development Reports—and the Commission on Global Governance in 1995—proposed an economic security council, with equal numbers of developed and developing countries and veto powers in each group to build confidence. Some have suggested that the existing ECOSOC should set up an executive committee with delegated powers for decision-making on certain matters or split into two bodies, one for decision-making on economic matters and the other for social matters.

Other mechanisms would be possible, depending mostly on what could command a political consensus. Three critical needs:

- For a broad consensus among industrial and developing countries, rich and poor, and for a stronger and more open decision-making process on next steps in economic and social issues of global governance.
- For national governments to work out arrangements to harmonize their national positions and representation in the institutions of global government. Today, global management suffers because many countries lack coherence between positions taken by their finance ministries (which generally represent them in the Bretton Woods institutions), their foreign ministries (which generally represent them in the United Nations in New York) and other ministries (which represent them in the World Health Organization, Food and Agriculture Organization, UNESCO, International Labour Organization and other bodies of the United Nations).

 For clear agreement on a division of labour among the United Nations, the World Bank and the IMF.

The issues in reforming global governance are a good starting point. Because the issues are so wide-ranging, a joint committee could be set up at the highest level to steer discussions and negotiations, recognizing that governments will probably choose to pursue most matters in existing institutions. But to get legitimacy and balanced representation in the final result, the United Nations will have to be involved in the overall process and the final decision-making.

MOVE TO A GLOBAL CENTRAL BANK

Just as countries need central banks, so the world needs a central bank in the 21st century. The recent establishment of the European Central Bank demonstrates the perceived need among some of the richest industrial countries.

A world central bank would help stabilize global economic activity by performing several vital functions:

- Acting as lender of last resort.
- Regulating financial institutions and flows.
- Calming financial markets when they become jittery or disorderly.
- Creating and regulating new international liquidity.

Enlarging the mandate of the IMF would be one approach, though this would need to be accompanied by measures to ensure greater sensitivity to human concerns and broader perspectives on economic and social policy. Another would be to establish a world financial authority.

The Asian crisis has demonstrated the need for a global monetary authority to have access to much greater financial resources. Keynes's original proposal was that the global monetary authority should have access to resources equivalent to 50% of world imports. The US counterproposal was for 15%. Even with the special efforts during the recent crisis, IMF resources remain less than 3% of world imports.

Several mechanisms are available to expand global financial resources, including a renewed issue of special drawing rights and agreements with the main central banks to permit enlarged swap arrangements. Quick access to funding may be as important as the size of the resources available. Procedures to achieve this need to be explored, such as advance agreements on provisional lines of credit.

CREATE A GLOBAL INVESTMENT TRUST AND TRANSFER MECHANISM

There is an urgent need for new mechanisms to generate additional flows of resources to poor developing countries as well as new funding for global public goods. Private investment flows are important, but experience shows two major problems. First is their volatility, especially portfolio flows. Second is the tendency for foreign direct investment to be concentrated in a small number of developing countries. In 1997 almost 70% of all foreign direct investment to developing and transition economies went to just 10 countries.

There are several possible ways to generate such additional revenues:

- Mobilize resources as a by-product of revenues raised from polluter-pays charges on global pollution.
- Charge rents or royalties on the use of such "global commons" as under-seabed mineral resources or radio waves.
- Introduce taxes on such items as international air tickets.
- Implement the Tobin tax proposal—to levy
  a charge on short-term financial movements
  and restrain volatile flows of short-term
  finance. Some of the proceeds could be
  invested in poor countries.
- Blend concessional finance with private lending and make the proceeds available as a third window for middle-income countries.
   Separately or together, these proposals could improve the operation of the global economy and generate billions of dollars a year.

#### CREATE A WORLD ENVIRONMENT AGENCY

The Earth Summit in Rio de Janeiro in 1992 estimated the cost for developing countries to adopt sustainable development practices at \$600 billion a year, of which \$475 billion would need to come out of their own resources and \$125 billion from new and additional international resources.

The Global Environment Facility (GEF), established in 1991, is a poor cousin to these ambitious plans. Jointly implemented by the World Bank, UNDP and the United Nations Environment Programme (UNEP), the GEF provides funding aimed at achieving environmental benefits in four areas: climate change, loss of biodiversity, pollution of international waters and depletion of the ozone layer. At Rio the scope of the GEF's funding was broadened to include land degradation, primarily desertification and deforestation, where this is linked to the four focal areas. Since 1992 some \$2 billion has been pledged for activities supported by the GEF.

Relative to today's global economy—and the global challenge of sustainability—present structures and levels of global support are minuscule. Needed is a world environment agency, possibly developed from UNEP, with much larger resources and broader functions:

- To oversee the global environment, presenting reports and posing issues for review and policy-making.
- To broker deals.
- To serve as a clearing bank.

One important focus of that agency would be to encourage the removal of perverse subsidies and shift the resources released to direct support of environmental protection and other measures (including employment creation). An Earth Council study estimated that developing and transition economies spend \$220-270 billion a year on such perverse subsidies, mostly for energy and water. Some estimates suggest an even higher figure. Massive resources are clearly being wasted, and there is a strong case for beneficial reallocation.

For its clearinghouse functions, the agency would oversee trade in permits for greenhouse gas emissions, along the lines explored in the Clean Development Mechanism proposed in the Kyoto and Buenos Aires climate conferences. Emission rights could be borrowed or lent, but not sold—thus keeping the market competitive and avoiding any risk that developing countries might lose long-term control over their rights. In addition to promoting environmental sustainability, the clearinghouse would be a new mechanism for mobilizing additional financial resources for developing countries, especially the poorest.

These proposals could improve the operation of the global economy and generate billions of dollars a year

Environmental governance should also be improved—by reviving the proposal that the Trusteeship Council of the United Nations be given a new mandate to preside over issues relating to the use and protection of the global commons, guided by concern for the security of the planet.

Make the World Trade Organization fairer and give it a mandate over multinational corporations

People in all parts of the world need to join in the debate and to make clear their interests and concerns

The World Trade Organization, still on an upward trajectory following its creation in 1995, marks a major step forward from its predecessor, GATT. It has established a rule-based system for monitoring international trade and for settling disputes. More than 130 countries now belong to it. And its voting system offers fairer representation than that of the Bretton Woods institutions.

But it is far from adequate, given the longterm priorities for improving the situation of developing countries. And although its playing field is apparently more level, the very unequal size of the players often pits Gulliver against a single Lilliputian.

Other functions for the WTO need to be explored in the long run. Multinational corporations are involved in more than 60% of world trade and dominate the production, distribution and sale of many goods from developing countries, especially in the cereal, mining and tobacco markets. About a third of world trade is conducted as intrafirm trade within multinational corporations, bypassing altogether the free play of genuine market competition. The mandate of the WTO needs to be expanded to give it antimonopoly functions over the activities of multinational corporations, including production, working in close collaboration with national competition and antitrust agencies.

Achieving a comprehensive global competition policy might not be feasible, but progress could be made on several fronts.

- Agreements could provide for international oversight of the implementation of domestic competition policy rather than for international rules.
- An international agreement could be limited to the issue of price discrimination and predation, which would allow the elimination of antidumping rules.
- There may be opportunities for increased cooperation through bilateral and regional agreements where differences in antitrust laws are smaller. A multilateral agreement could be negotiated to lay out a set of minimum standards for national policies in areas of international consensus.

One strong reason for adopting an international agreement on competition policies is to eliminate antidumping actions, initiated when countries are deemed to be dumping or selling below cost.

#### ALL THESE ACTIONS BEGIN WITH PEOPLE

The world is rushing headlong into greater integration—driven mostly by economic forces and guided mostly by a philosophy of market profitability and economic efficiency.

Much debate is under way—but it is too narrowly focused, too geographically unbalanced and driven too much by economic and financial interests. People in all parts of the world need to join in the debate and to make clear their interests and concerns. The process of reinventing global governance must be broader, and human development can provide a framework for this exploration. It is time to change.

## References

# Background papers, country and regional studies and background notes for Human Development Report 1999

#### Background papers

- Adedeji, Adebayo. 1999. "Globalisation and Marginalisation in Sub-Saharan Africa."
- Al-Samarrai, Samer, and Patrick Belser. 1999. "Education, Globalization and the 'Low-Skill Trap'."
- Alston, Philip. 1999. "Governance, Human Rights, and the Normative Areas."
- Anderson, Edward, 1999. "Globalisation and Inequality in Historical Perspective."
- Arizpe, Lourdes. 1999. "Culture, Globalisation, and International Trade."
- Bangura, Yusuf. 1999. "Globalization, Technocratic Policy-Making and Democratisation."
- Belser, Patrick. 1999. "Globalisation, International Labour Standards, and Multilateral Institutions."
- Bigman, David. 1999. "Global Income Distribution."
- Desai, Meghnad, 1999a, "Global Governance."
- Folbre, Nancy. 1999. "Care and the Global Economy."
- Griffith-Jones, Stephany, and J. Kimmis, 1999. "Capital Flows: How to Curb Their Volatility."
- Helleiner, Gerry, and Ademola Oyejide. 1999. "Global Economic Governance, Global Negotiations, and the Developing Countries."
- Hopkins, Michael. 1999a. "Corporate Social Responsibility of Business and Human Development."
- --. 1999b. "Towards an Index to Measure the Social Responsibility of Business and Human Development."
- Khor Kok Peng, Martin. 1999. "Foreign Investment Policy, the Multilateral Agreement on Investment and Development Issues."
- Lee, Jong-Wha, and Changyong Rhee. 1999. "Social Impacts of the Asian Crisis: Policy Challenges and Lessons."
- Mahmood, Raisul Awal. 1999. "Globalisation, International Migration and Human Development: Linkages and Implications."
- Mazumdar, Ranjini. 1999. "Globalisation and the Media: Currents and Counter Currents."
- Özler, Süle, 1999. "Globalisation, Employment, and Gender." Panayotou, Theodore. 1999. "Globalisation and Environment."
- Ramirez, Alejandro Magana. 1999. "Impact of Globalisation on National Film Industries."
- Rao, Mohan J. 1999a. "Globalization and the Fiscal Autonomy of the State."
- ----. 1999b. "Openness, Poverty and Inequality."
- Rodas-Martini, Pablo. 1999. "Income Inequality within and between Countries: The Main Issues in the Literature."

- Sengupta, Arjun. 1999. "Financial Management of Globalization of Developing Countries."
- Tokman, Viktor E., and Emilio Klein. 1999. "Social Stratification under Tension in a Globalized Era."
- Tuijnman, Albert. 1999. "International Indicators of Educational Attainment."
- UNDP (United Nations Development Programme) Country Office, Thailand. 1999. "Responding to the Thai Economic Crisis."
- Whalley, John. 1999. "Developing Countries in the Global Economy: A Forward-Looking View."

#### Country and regional studies

- Amin, Galal. 1999. "Globalisation and Human Development in the Arab World."
- Bakker, Isabella. 1999. "Globalisation and Human Development in the Rich Countries: Lessons from Labour Markets and Welfare States."
- Jomo, Kwame Sundaram. 1999. "Globalisation and Human Development in East Asia."
- Khan, Azizur Rahman. 1999. "Globalisation and Human Development in South Asia."
- Lipumba, Nguyuru I. 1999. "Opportunities and Challenges of Globalisation: Can Sub-Saharan Africa Avoid Marginalisation?"
- Ruminska-Zimny, Ews. 1999. "Globalisation and Human Development in Transition Economies."

#### **Background notes**

- Deacon, Bob. 1999. "The Social Impact of Globalization on Developed Economies."
- Desai, Meghnad. 1999b. "Equity Issues in Global Governance."
- Goldstone, Leo. 1998. "Statistical Note on Human Development Report Indicators and Tables."
- Korea Institute for Social Information and Research. 1999.

  "The Economic Crisis in Korea: Its Effects and Prospects for Recovery—A Random Assessment."
- Lipton, Michael. 1999a. "Globalization, Liberalization, and Competition."
- ——. 1999b. "Globalized Agricultural Technology and Human Development."
- RAFI (Rural Advancement Foundation International).

  1999a. "Background Note on Biotechnology
  Patenting."

UNDP (United Nations Development Programme) Country Office, Indonesia. 1999. "Mitigating the Social Impact of the Economic Crisis: Approaches to Social Safety Net Programmes in Indonesia." UNDP (United Nations Development Programme) Country Office, Malaysia. 1999. "Globalization and Human Development: The Case of Malaysia."

## Bibliographic note

Chapter 1 draws on the following: Adedeji 1999, Amin 1999, Anderson 1999, Arizpe 1999, Bakker 1999, Belser 1999, Castells 1996, Deacon 1999, Desai 1999a and 1999b, Eatwell and Taylor 1998a and 1998b, Giddens 1990, Griffith-Jones and Kimmis 1999, Helleiner and Oyejide 1999, IMF 1999, Jomo 1999, Khor Kok Peng 1998 and 1999, Lee and Rhee 1999, Lipton 1999a, 1999b and 1999c, Lipumba 1999, Mahmood 1999, Mazumdar 1999, OECD 1997d and 1998b, Özler 1999, Panayotou 1999, Ramirez 1999, Rodas-Martini 1999, Ruminska-Zimny 1999, Tokman and Klein 1999, UN 1998f and 1998g, UNAIDS and WHO 1998b, UNCTAD 1998b and 1998c, UNDCP 1997, UNDP 1994, 1995 and 1998c, UNDP Country Office, Indonesia 1999, UNDP Country Office, Malaysia 1999, UNDP Country Office, Thailand 1999, Whalley 1999 and World Bank 1998a.

Chapter 2 draws on the following: Biotechnology and Development Monitor 1998, Bond 1997, Brown and Flavin 1999, Budapest Sun 1998, Castells 1998, CNN Interactive 1999, Corner House 1998, d'Orville 1999, Drahos 1997, Ecologist 1998, Financial Times 1998, Fink and Braga 1999, Foo 1999, Fortune Magazine 1999, GetIt 1998, GRAIN 1998, Hakansta 1998, Hamelink 1997, Headcount 1998, Irish Times 1998, ITU 1998, Jensen 1998, Lanfranco 1998, Lipton 1999b, Mansell and When 1998, Mehta 1999, Mooney 1998, My Vuong 1999, National Research Council and the World Bank 1995, National Science Foundation 1998, NetDay 1999, New York Times 1999a, ODI 1999, OECD 1996b and 1996c, Oxfam 1998, Panos 1998, PEOPLink 1999, Poster 1997, Pradesh 1998, RAFI 1998, 1999a, 1999b, 1999c and 1999d, Madanmohan Rao 1999, Richardson 1998, Schoettle and Grant 1998, SIDSnet 1998, South Centre 1997, UNCTAD 1996b and 1998c, UNDP 1998b, UNESCO 1998d, von Weizsacker 1998, Weekly Mail and Guardian 1998, White 1999. WIPO 1997 and 1998 and World Bank 1999a.

Chapter 3 draws mainly on Folbre 1999. It also draws on the following: Elson 1998, England and Folbre 1998, Özler 1999, Ruminska-Zimny 1997, UNDP 1995, UNICEF 1998b and Zohir 1998.

Chapter 4 draws on the following: Adedeji 1999, Agosin 1995, Al-Samarrai and Belser 1999, Amin 1999, Bakker 1999, Bangura 1999, Belser 1999, Castro-Leal and others 1999, Dasgupta 1998, Deacon 1999, Edwards and Edwards 1991, Ghai and de Alcantara 1994, Global Survival Network 1997, Griffith-Jones and Kimmis 1999, Grunberg 1998, Gupta, Dayoodi and Alonso-Terme 1998, Hausman and Rojas-Suarez 1996, Helleiner and Oyejide 1999, IADB 1998, IMF 1998b and 1999b, International Confederation of Free Trade Unions 1998, Jomo 1999, Khan 1999, Khan and Mugtada 1997, Khor Kok Peng 1999, Kobrin 1998, Lawrence, Rodrik and Whalley 1996, Lee 1998, Lee and Rhee 1999, Lim and Siddall 1997, Lipton 1999a, Lipumba 1999, Mahmood 1999, OECD 1998c, Panayotou 1999, Ranis and Stewart 1998, Mohan J. Rao 1999a and 1999b, Robson 1997, Rodas-Martini 1999, Rodrik 1997 and 1999, Ruminska-Zimny 1999, Spinanger 1998, Stalker 1997, Tokman and Klein 1999, UN 1998h, UNCTAD 1998a and 1998b, UNDP 1997b, UNDP Country Office, Indonesia 1999, UNESCO 1998b, Visser and Hemeriick 1997, Wahba and Mohieldin 1998, Whalley 1999, Woods 1998, World Bank 1995, 1998a and 1998b and Yoon and Rhee 1998.

Chapter 5 draws on the following: Agosin, Crespi and Tussie 1998, Arizpe 1999, Bergsten 1998, Brandt Commission 1980, Castells 1996-99, Commission on Global Governance 1995, Desai 1999a and 1999b, Dubey 1996, Eatwell 1996, Economist 1998a, Eichengreen 1999, Frankel 1997, Griffith-Jones and Kimmis 1999, Group of 22 1998, Haq 1995, Haq, Grunberg and Kaul 1996, Helleiner and Oyejide 1999, Jomo 1999, Kay 1997, Kenen 1994, Keynes 1980, Kobrin 1998, Küng 1996, Lee 1998, Lee and Rhee 1999, Lipumba 1999, Lister 1997, Michaelopoulos 1998, Panavotou 1999, Pearson Commission 1969, Randel and German 1997, Rodrik 1999, Sachs 1998, Schott 1994, South Centre 1998, Stewart and Daws 1996, UN 1998a and 1998b, UNCTAD 1996a and 1998b, USAID 1999, Whalley 1999, Whalley and Hamilton 1996, World Bank 1998a and 1999a and World Commission on Culture and Development 1995.

#### References

- Agosin, Manuel R. 1995. "Foreign Direct Investment in Latin America." In Manuel R. Agosin, ed., Foreign Direct Investment in Latin America. Washington, DC: Inter-American Development Bank.
- Agosin, Manuel R., Gustavo Crespi and Diana Tussie. 1995. "Developing Countries and the Uruguay Round: An Evaluation and Issues for the Future." *International Monetary and Financial Issues for the 1990s*. New York: United Nations Conference on Trade and Development.
- Alesina, Alberto. 1998. "The Political Economy of Macroeconomic Stabilizations and Income Inequality: Myth and Reality." In Vito Tanzi and Ke-young Chu, eds., Income Distribution and High-Quality Growth. Cambridge, Mass.: MIT Press.
- Alston, Julian, Philip Pardey and Johannes Roseboom. 1998.

  "Financing Agricultural Research: International Investment Patterns and Policy Perspectives." IFPRI Reprint 388. Reprinted from World Development 26 (6). International Food Policy Research Institute, Washington, DC.
- Anand, Sudhir, and Amartya Sen. 1999. "The Income Component in the HDI—Alternative Formulations." Occasional Paper. United Nations Development Programme, Human Development Report Office, New York.
- Bergsten, C. Fred. 1998. "Reviving the Asian Monetary Fund." International Economics Policy Brief 98-8. Washington, DC.
- Biotechnology and Development Monitor. 1998. "Pharmaceuticals: The Role of Biotechnology and Patents." 34(June): 13-15.
- BIS (Bank for International Settlements). 1998. 68th Annual Report. Basle.
- BMF Gallup Media. 1999. "Internet Users among Population in Estonia." [http://www.bmf.ee]. 27 March 1999.
- Bond, James. 1997. "The Drivers of the Information Revolution—Cost, Computing Power and Convergence." Viewpoint 118. World Bank, Finance, Private Sector and Infrastructure Network, Washington, DC.
- Brandt Commission (Independent Commission on International Development Issues). 1980. North-South: A Programme for Survival. Cambridge, Mass.: MIT Press.
- Brown, Lester, and Christopher Flavin. 1999. State of the World 1999. London: Earthscan.
- Budapest Sun. 1998. "Teachers Buckling under Strain of National Internet Program." 23 April. [http://www. proquest.com]. 9 March 1999.
- Cambodia, Ministry of Planning. 1998. Cambodia Human Development Report 1998. Phnom Penh.
- Camdessus, Michel. 1998. "Money Laundering: The Importance of International Countermeasures." Address delivered at the Plenary Meeting of the Financial Action Task Force on Money Laundering, 10 February, Paris. [http://www.imf.org/external/np/speeches/1998/021098. htm]. February 1999.
- Castells, Manuel. 1996. The Rise of the Network Society. Cambridge: Blackwell.
- —— 1996-99. The Information Age. Vols. 1-3. Oxford: Blackwell.
- ——. 1998. "Information Technology, Globalisation and Social Development." Paper presented at United Nations Research Institute for Social Development (UNRISD) conference on Information Technology and Social Development, 22–24 June, Geneva.

- Castro-Leal, Florencia, Julia Dayton, Lionel Demery and Kalpana Mehra. 1999. "Public Social Spending in Africa: Do the Poor Benefit?" World Bank Research Observer 14(1): 49–72.
- CDIAC (Carbon Dioxide Information Analysis Center). 1999a. "CO<sub>2</sub> Emissions." [http://www.cdiac.esd. ornl.gov/ftp/ndp030/global96.ems]. February 1999.
- ----. 1999b, "CO<sub>2</sub> Emissions," [http://www.cdiac.esd. ornl.gov/ftp/ndp030/nation96.ems]. February 1999.
- CGIAR (Consultative Group on International Agricultural Research). 1998. "The Bio-Technology Revolution'— New Opportunities and Risks for the Poor and the Environment." [http://www.cgiar.org]. 29 January 1999.
- Chilliah, Raja J., and R. Sudarshan. 1999. Income Poverty and Beyond: Human Development in India. New Delhi: Social Science Press.
- CNBC. 1998. "Future File." [http://www.cnbc.com]. 10 November 1998.
- CNN Interactive. 1999. "China Shuts Down Popular Internet Forum." [http://www.cnn.com]. 5 February 1999.
- Commission on Global Governance. 1995. Our Global Neighborhood: The Report of the Commission on Global Governance, New York: Oxford University Press.
- Corner House. 1998. "Food? Health? Hope? Genetic Engineering and World Hunger." Briefing 10. Dorset, England.
- Dasgupta, Biplab. 1998. Structural Adjustment, Global Trade and the New Political Economy of Development. London: Zed Books.
- d'Orville, Hans. 1999. Email correspondence on proposals for a bit tax. 11 March.
- Drahos, Peter. 1997. "States and Intellectual Property: The Past, the Present and the Future." [http://138.77.20.51 /impart/drahos.htm]. 8 December 1997.
- Dubey, Muchkund. 1996. An Unequal Treaty: World Trading Order after GATT. New Delhi: New Age International.
- Eatwell, John. 1996. "International Financial Liberalization: The Impact on World Development." Office of Development Studies Discussion Paper 12. United Nations Development Programme, New York.
- Eatwell, John, and Lance Taylor. 1998a. "The Case for a World Financial Authority." Paper presented at the workshop on the United Nations' Position in International Financial Architecture, 26–27 November, Santiago.
- ——.1998b. "International Capital Markets and the Future of Economic Policy." Center for Economic Policy Analysis Working Paper Series 3. New School for Social Research, New York.
- Ecologist. 1998. "The Monsanto Files: Can We Survive Genetic Engineering?" (special edition) 28(5).
- Economist. 1998a. "The Resources Lie Within." 7 November, pp. 19-21.
- ——, 1998b. "The World in Figures: Industries." The World in 1999, p. 82.
- Edwards, Sebastian, and Alejandra Cox Edwards. 1991. Monetarism and Liberalization: The Chilean Experience. Chicago: University of Chicago Press.
- Eichengreen, Barry. 1999. Toward a New International Financial Architecture: A Practical Post-Asia Agenda. Washington, DC: Institute for International Economics.
- Elson, Diane. 1998. "The Economic, the Political and the Domestic: Businesses, States and Households in the

- Organisation of Production." New Political Economy 3(2): 189-208.
- England, Paula, and Nancy Folbre. 1998. "The Cost of Caring." In Ronnie J. Steinberg and Deborah Figart, eds., The Annals of the American Academy of Political and Social Science on Emotional Labour. London: Sage.
- EU Network. 1998, New Ways Information Bulletin 2.
  Brussels.
- FAO (Food and Agriculture Organization of the United Nations). 1997. Correspondence on daily per capita calorie supply. July. Rome.
- ——. 1998. "Daily Per Capita Supply of Calories." [http://www.fao.org/NEWS/1998/981204-e.htm]. February 1999.
- ——,1999. "Food Balance Sheets." [http://www.apps.fao. org/lim500/nphwrap.pl?FoodBalanceSheet&Domain= FoodBalanceSheet]. February 1999.
- Financial Times, 1998a. "Spain's Pace-Setting Project for Europe." 5 November.
- Fink, Carsten, and Carlos A. Primo Braga. 1999. "How Stronger Protection of Intellectual Property Rights Affects International Trade Flows." World Bank, Science and Technology Thematic Group and the Energy, Mining and Telecommunications Department, Washington, DC.
- Fischer, Stanley. 1999. "On the Need for an International Lender of Last Resort." International Monetary Fund, Washington, DC. [http://www.imf.org]. 17 February 1999.
- Flynn, Padraig. 1998. Speech presented at the Conference of EU Ministers for Women, 5-6 May, Belfast.
- Foo, Jacky. 1999. Email correspondence on the organization and impact of Internet conferences. 19 January.
- Forbes Magazine. 1997a. "Forbes 500 Annual Directory." [http://www.forbes.com]. April 1999.
- ----. 1997b. "The International 800." [http://www.forbes.com]. April 1999.
- ----. 1998. "The World's Richest People." 6 July.
- Frankel, Jeffrey A. 1997. Regional Trading Blocs in the World Economic System. Washington, DC: Institute for International Economics.
- Gerster, Richard. 1998. "Patents and Development: A Non-Governmental Organization View Prior to Revision of the TRIPS Agreement." Journal of World Intellectual Property 1(4): 608.
- Getlt. 1998. The Internet for Policymakers. CD-ROM. Singapore.
- Ghai, Dharam, and Cynthia Hewitt de Alcantara. 1994.
  Globalization and Social Integration: Patterns and Processes. Geneva: United Nations Research Institute for Social Development.
- Ghosh, Bimal. 1997. "Migration and Development: Some Selected Issues." Panama City.
- Giddens, Anthony. 1990. The Consequences of Modernity. Cambridge, England: Polity Press.
- Global Survival Network. 1997a. Bought & Sold. Documentary. Washington, DC.
- ——.1997b. Crime and Servitude: An Exposé of the Traffic of Women for Prostitution from the Newly Independent States. New York.
- Gottschalk, Peter, and Timothy M. Smeeding. 1997. "Cross-National Comparisons of Earnings and Income Inequality." *Journal of Economic Literature* 35(2): 633–87.

- GRAIN (Genetic Resources Action International). 1998.
  "Intellectual Property Rights and Biodiversity: The Economic Myths." [http://www.grain.org]. 28 February 1999.
- Group of 22. 1998. Summary of Reports on the International Financial Architecture Washington, DC.
- Grunberg, Isabelle. 1998. "Double Jeopardy: Globalization, Liberalization and the Fiscal Squeeze." World Development 26(4): 591–606.
- Gupta, Sanjeev, Hamid Davoodi and Rosa Alonso-Terme. 1998. "Does Corruption Affect Income Inequality and Poverty?" International Monetary Fund, Fiscal Affairs Department, Washington, DC.
- Hakansta, Carin. 1998. "The Battle on Patents and AIDS Treatment." Biotechnology and Development Monitor 34(March): 17-19.
- Hamelink, Cees. 1997. "New Information and Communication Technologies, Social Development and Cultural Change." UNRISD Discussion Paper 86. United Nations Research Institute for Social Development, Geneva.
- Haq, Mahbub ul. 1995. Reflections on Human Development. New York: Oxford University Press.
- Haq, Mahbub ul, Isabelle Grunberg and Inge Kaul, eds. 1996. The Tobin Tax: Coping with Financial Volatil ity. New York: Oxford University Press.
- Haq, Mahbub ul, Richard Jolly, Paul Streeten and Khadija Haq. 1995. The UN and the Bretton Woods Institutions: New Challenges for the Twenty-First Century Houndmills: Macmillan.
- Hausman, Ricardo, and Liliana Rojas-Suarez. 1996. Volatile Capital Flows: Taming Their Impact on Latin America. Baltimore, Md.: Johns Hopkins University Press.
- Headcount. 1998. "Global E-Commerce." [http://www headcount.com]. 12 November 1998.
- Heeks, Richard. 1998. "The Uneven Profile of Indian Software Exports." Development Infomatics Working Paper Series WP 3. Institute for Development Policy, Manchester.
- Helsby, Thomas. 1999. Correspondence on globalization and crime. Kroll Associates. March.
- Heston, Alan, and Robert Summers. 1999. Data on real GDP per capita (PPP\$). March. University of Pennsylvania. Department of Economics, Philadelphia.
- IADB (Inter-American Development Bank). 1998. Facing
  Up to Inequality in Latin America: Economic and
  Social Progress in Latin America, 1998–99 Report.
  Baltimore, Md.: Johns Hopkins University Press.
- IDC (International Data Corporation). 1999. Email correspondence on Internet user data for 1998 for Latin America, South-East Asia and Eastern Europe, 18 and 30 March. Mountain View, Calif., Prague and Singapore.
- IDEA (Institute for Democracy and Electoral Assistance). 1997. Voter Turnout from 1945 to 1997: A Global Report. Stockholm.
- IISS (International Institute for Strategic Studies). 1998. The Military Balance 1998–99. London: Oxford University Press.
- ILO (International Labour Office). 1995. World Labour Report 1995. Geneva.
- ——. 1996. Estimates and Projections of the Economically Active Population, 1950–2010. 4th ed. Diskette. Geneva.
- ----. 1998. Labour Statistics Database. Geneva.

- —. Various years. Yearbook of Labour Statistics.
- IMF (International Monetary Fund). 1997a. World Economic Outlook. May. Washington, DC.
- ——. 1998a. "Debt Relief for Low-Income Countries: The HIPC Initiative." [http://www.imf.org]. 23 December 1998
- 1998b. World Economic Outlook. October. Washington, DC.
- ——. 1998c. World Economic Outlook and International Capital Markets: Interim Assessment, December 1998. Washington, DC.
- ——. 1999b. "Opportunities for Africa." Finance and Development (special issue) 36(1).
- International Confederation of Free Trade Unions. 1998.

  Fighting for Workers' Human Rights in a Global

  Economy, Brussels.
- International Federation of Red Cross and Red Crescent Societies. 1995. World Disasters Report 1995. Geneva.
- International Organization for Migration. 1994. "Trafficking in Migrants: Characteristics and Trends in Different Regions of the World." Discussion paper. Geneva.
- 1996a. CIS Migration Report. Geneva.
- 1996b. Irregular Migration and Migrant Trafficking. An Overview. Geneva.
- 1997a. Trafficking in Migrants: The Baltic Route. Geneva.
- ------ 1997b. Trafficking in Migrants: IOM Policy and Activities. Geneva.
- ——. 1997c. Trafficking in Women to Japan for Sexual Exploitation: A Survey of the Case of Filipino Women. Geneva.
- ——.1998a. Information Campaign against Trafficking in Women from Ukraine. Geneva.
- IPU (Inter-Parliamentary Union). 1999a. "Women in Parliaments." [http://www.ipu.org/wmn-e/classif.htm]. February 1999.
- ——. 1999b. Correspondence on date of latest elections, political parties represented and women's rights to vote and to stand for election. February. Geneva.
- Ireland, Department of Taoiseach. 1998. "Overview of Irish Economic Performance." Social Policy Unit. Dublin.
- Irish Times. 1998. "Girls Just Want to Have Equal Access."
  28 September, p. 18.
- ITU (International Telecommunication Union). 1997. World Telecommunication Indicators. Database. Geneva.
- ——. 1998. World Telecommunication Development Report 1998. Geneva.

- Jensen, Mike. 1998. "African Internet Connectivity." [http://www3.sn.apc.org/africa/afstat.htm]. 19 November 1998.
- Kakwani, Nanak. 1998. "Impact of Economic Crisis on Employment, Unemployment and Real Income." National Economic and Social Development Board, Development Evaluation Division, and Asian Development Bank, Bangkok.
- Kaul, Inge, Isabelle Grunberg and Marc Stern, eds. 1999. Global Public Goods: International Cooperation in the 21st Century. New York: Oxford University Press.
- Kay, Cristobal, ed. 1997. Globalisation, Competitiveness, and Human Security. London: International Specialized Book Services.
- Kenen, Peter B. 1994. Managing the World Economy: Fifty Years after Bretton Woods. Washington, DC: Institute for International Economics.
- Kennan, Jane, and Christopher Stevens. 1997. "From Lomé to the GSP: Implications for the ACP of Losing Lomé Trade Preferences." Institute of Development Studies, Sussex, England.
- Keynes, John Maynard. 1980. The Collected Writings of John Maynard Keynes. Vols. 25–27. London: Macmillan.
- Khan, Azizur Rahman, and M. Muqtada. 1997. Employment Expansion and Macroeconomic Stability under Increasing Globalization. ILO Studies Series. Geneva: International Labour Office.
- Khor Kok Peng, Martin. 1998. "Why Capital Controls and International Debt Restructuring Mechanisms Are Necessary to Prevent and Manage Financial Crises." Penang.
- Klugman, Jeni. 1999. "Social and Economic Policies to Prevent Complex Humanitarian Emergencies: Lessons from Experience." Policy Brief 2. United Nations University/World Institute for Development Economics Research, Helsinki.
- Kobrin, Stephen J. 1998. "The MAI and the Clash of Globalizations." Foreign Policy 112(fall): 97-109.
- Küng, Hans. 1996. Global Responsibility: In Search of a New World Ethic. New York: Continuum.
- Kuwait, Ministry of Planning, and UNDP (United Nations Development Programme). 1997. Human Development Report: The State of Kuwait 1997. Kuwait City.
- Lal Das, Bhagirath. 1998. The WTO Agreement: Deficiencies, Imbalances and Required Changes. Penang: Third World Network.
- Lanfranco, Sam. 1998. "To What Extent Has the 'Wiring of Asia' Been Used for Job Training and Skills Development among the Poor?" [http://www.oneworld.org]. 2 November 1998.
- Lanjouw, Jean. 1997. "The Introduction of Pharmaceutical Product Patents in India: 'Heartless Exploitation of the Poor and Suffering?'" Economic Growth Center Discussion Paper 775. Yale University, Economic Growth Center, New Haven, Conn.
- Lawrence, Robert Z., Dani Rodrik and John Whalley. 1996.
  Emerging Agenda for Global Trade: High Stakes for Developing Countries. Policy Essay 20. Washington, DC: Overseas Development Council.
- Lee, Eddy. 1998. The Asian Financial Crisis. Geneva: International Labour Office.
- Leonard, Andrew. 1997. "Apache's Free-Software Warriors." [http://www.salonmagazine.com]. 11 March 1999.
- Lim, Lin Lean, ed. 1998. The Sex Sector: The Economic and Social Bases of Prostitution in Southeast Asia. Geneva: International Labour Office.

- Lim, Linda Y. C., and Nathaniel S. Siddall. 1997. "Investment Dynamism in Asian Developing Countries." In John H. Dunning and Khalil A. Hamdani, eds., The New Globalism and Developing Countries. Tokyo: United Nations Press.
- Lipton, Michael. 1996. "Poverty-Basic and Annex Tables: Notes on Method." Background paper for Human Development Report 1997. United Nations Development Programme, Human Development Report Office, New York.
- Lister, Marjorie. 1997. The European Union and the South: Relations with Developing Countries. New York: Routledge.
- Maddison, Angus. 1995. Monitoring the World Economy, 1820–1992. Paris: Organisation for Economic Cooperation and Development, Development Centre.
- Madhya Pradesh, Government of. 1998. The Madhya Pradesh Human Development Report. Bhopal.
- Mansell, Robin, and Uta Wehn, eds. 1998. Knowledge Societies: Information Technology for Sustainable Development. Oxford: Oxford University Press.
- McGrew, Anthony. 1997. "Globalization: Conceptualizing a Moving Target." Paper presented at the seminar on International Solidarity and Globalization: In Search of New Strategies, October, Stockholm.
- Mehta, Geeta. 1999. Correspondence by fax on byte by byte and the M.S. Swaminathan Research Foundation. 15 February.
- Michaelopoulos, Constantine. 1998. "Developing Countries' Participation in the World Trade Organization." Policy Research Working Paper 1906. World Bank, Washington, DC, and World Trade Organization, Geneva.
- Milanovic, Branko. 1998. Income, Inequality and Poverty during the Transition from Planned to Market Economy. Washington, DC: World Bank.
- Mooney, Pat Roy. 1996. "Private Parts: Privatization and the Life Industry." *Development Dialogue* (special issue) no. 1-2: 13-181.
- M.S. Swaminathan Research Foundation. 1998. "Communication Technology: Bridging the Urban-Rural Divide." [http://www.mssrf.org]. 18 March 1999.
- My Vuong, Theresa. 1999. "Vietnamese Forge Worldwide Online Community." [http://www.mercurycenter. com]. 24 February 1999.
- National Defense University. 1997. "Strategic Assessment: Flashpoints and Force Structures: Chapter 16." [http://www.ndu.edu/ndu/inss/sa97/sa97ch16.html]. December 1999.
- National Economic and Social Forum. 1997. A Framework for Partnership: Enriching Strategic Consensus through Participation. Forum Report 16. Dublin.
- National Research Council and World Bank. 1995. Marshaling Technology for Development: Proceedings of a Symposium. Washington, DC: National Academy Press.
- National Science Foundation. 1998. "US and International Research and Development." [http://www.nsf.gov]. 27 February 1999.
- Nepal South Asia Centre. 1998. Nepal Human Development Report 1998. Kathmandu.
- NetDay. 1999. "NetDay FAQs." [http://www.netday96.com], 9 February 1999.
- Network Wizards. 1998a. "Internet Domain Survey July 1998." [http://www.nw.com]. March 1999.
- \_\_\_\_\_\_. 1998b. "Number of Internet Hosts." [http://www.nw.com]. 22 October 1998.

- New York Times. 1998a. "Citigroup Says It Will Cut 10,400 Johs." 16 December.
- \_\_\_\_\_\_\_ 1999a. "College Freshmen's Internet Use a Way of Life, but Disparities Emerge." 25 January, p. A11.
- Nua. 1999. "How Many Online." [http://www.nua.ie]. 1 March 1999.
- ODI (Overseas Development Institute). 1999. "The Debate on Genetically Modified Organisms: Relevance to the South." Briefing Paper. 1 January. London.
- OECD (Organisation for Economic Co-operation and Development). 1996a. Development Co-operation 1995
  Report. Development Assistance Committee Report.
  Paris.
- \_\_\_\_\_, 1996b. The Knowledge-Based Economy. Paris.
- -----. 19%c. Science, Technology and Industry Outlook
  Paris.
- --- 1997a. Education Policy Analysis. Paris.
- \_\_\_\_\_.1997b. Employment Outlook. Paris.
- 1997c. Environmental Data: Compendium 1997.
  Paris.
- \_\_\_\_\_\_, 1997d. Implementing the OECD Jobs Strategy.

  Lessons from Member Countries' Experience. Paris
- 1998a. Economic Outlook. Paris.
- \_\_\_\_\_, 1998b. Employment Outlook. Paris.
- ——. 1998c. Open Markets Matter: The Benefits of Trade and Investment Liberalization. Paris.
- ——, 1999a. Development Co-operation 1998 Report.

  Development Assistance Committee Report. Paris.
- 1999b. Geographical Distribution of Financial Flows to Aid Recipients. Paris.
- Forthcoming. Environmental Data: Compendium
  1999. Paris.
- Oxfam. 1998. "Biotechnology in Crops: Issues for the Developing World." [http://www.oxfam.org]. 26 February 1999.
- Panos. 1998. "The Internet and Poverty." Panos Briefing 28. [http://www.oneworld.org]. 7 November 1998.
- Pearson Commission (Commission on International Development). 1969, Partners in Development, New York: Praeger.
- PEOPLink. 1999. [http://www.peoplink.org]. 24 February
- Poster, Mark. 1997. "Nations, Identities and Global Technologies." Paper presented to the Media and Culture Group of the University of British Columbia, January, Vancouver.
- Pradesh, Siddartha. 1998. "Country Study: India—Local Species (Turmeric, Neem, Basmati)." [http://www.itd. org/issues/india6.htm]. 17 December 1998.
- Pritchett, Lant. 1997. "Divergence, Big Time." Journal of Economic Perspectives 11(3): 3-17.
- Psacharopoulos, George, and Zafiris Tzannatos, eds. 1992.

  Case Studies on Women's Employment and Pay in

  Latin America. Washington, DC: World Bank.
- RAFI (Rural Advancement Foundation International). 1998. Seed Industry Consolidation: Who Owns Whom? [http://www.tafi.org]. 7 January 1999.
- \_\_\_\_\_, 1999b. "The Gene Giants: Masters of the Universe?" [http://www.rafi.org]. 18 March 1999.
- ——. 1999c. "RAFI: Traitor Tech: 'Damaged Goods' from the GeneGiants." [post-0-matic@rafi.org]. 29 March.

- Randel, Judith, and Tony German. 1997. The Reality of Aid 1997/8: An Independent Review of Development Cooperation. London: Earthscan.
- Ranis, Gustav, and Frances Stewart. 1998. A Pro-Human
  Development Adjustment Framework for the
  Countries of East and South-East Asia. A United
  Nations Development Programme Policy Document.
  New York: United Nations Development Programme.
- Rao, Madanmohan. 1999. "The Internet for All: From Access to Agenda." [http://www.cpsr.org]. 22 January 1999.
- Richardson, Barry. 1998. "Intellectual Property Rights of Indigenous Knowledge." [http://www.mp.wa.gov.au/jscott/isssmoke.html]. 9 December 1998.
- Robson, Peter. 1997. The Economics of International Integration. 3d ed. London: Unwin Hyman.
- Rodrik, Dani. 1997. Has Globalization Gone Too Far? Washington, DC: Institute for International Economics.
- ——. 1999. Making Openness Work: The New Global Economy and the Developing Countries. Baltimore, Md: Johns Hopkins University Press.
- Rohozinski, Rafal 1998. "Mapping Russian Cyberspace: Perspective on Democracy and the Net." Paper presented at the United Nations Research Institute for Social Development (UNRISD) conference on Information Technology and Social Development, 22–24 June, Geneva.
- Ruminska-Zimny, Ewa. 1997. "Human Poverty in Transition
  Economies: Regional Overview for the Human Development Report 1997." Occasional Paper Series. United
  Nations Development Programme, Human Development Report Office, New York.
- Sachs, Jeffrey. 1998. "Proposals for Reform of the Global Financial Infrastructure." Harvard Institute for International Development, Cambridge, Mass.
- Sahai, Suman. 1999. Email correspondence on the Proposal for the Convention of Farmers and Breeders. 18 March.
- SatelLife. 1998. "HealthNet." [http://www.healthnet.org]. 9 November 1998
- Schoettle, Enid C.B., and Kate Grant. 1998. Globalisation: A Discussion Paper. New York: The Rockefeller Foundation.
- Schott, Jeffrey J. 1994. The Uruguay Round: An Assessment. Washington, DC: Institute for International Economics.
- Schware, Robert, and Susan Hume. 1994. "The Global Information Industry and the Eastern Caribbean." Viewpoint 17. World Bank, Finance, Private Sector and Infrastructure Network, Washington, DC.
- Securities Data Company. 1998. Correspondence by fax on unpublished data on announced worldwide mergers and acquisitions. Media Relations Division. 14 December. Newark, N.J.
- 1999. Correspondence by fax on mergers of biotechnology, telecommunications and computer companies.
   2 March.
- Security Distributing and Marketing, 1998. "Home Networks Imminent." [http://www.umi.com]. 5 March 1999.
- Shiva, Vandana. 1997. "Bioethics: A Third World Issue." [http://www.gene.free.de:80/gentech/1997/Jul-Aug/msg00498.html] 7 January 1999.
- SIDSnet (Small Island Developing States Network). 1998.
  "Small Island Developing States Network."
  [http://www.sidsnet.org.] 1 December 1998.

- SIPRI (Stockholm International Peace Research Institute). 1998. SIPRI Yearbook 1998. New York: Oxford University Press.
- Skrobanek, Siriporn, Nataya Boonpakdi and Chutima Janthakeero. 1997. The Traffic in Women: Human Realittes of the International Sex Trade. London: Zed Books.
- Smeeding, Timothy. 1997. "Financial Poverty in Developed Countries: The Evidence from the Luxembourg Income Study." Human Development Papers 1997: Poverty and Human Development. New York: United Nations Development Programme.
- South Centre. 1997. The TRIPS Agreement: A Guide for the South. Geneva.
- -----. 1998. The WTO Multilateral Trade Agenda and the South. Geneva.
- Spinanger, Dean. 1998. "Background Statistics on Anti-Dumping Measures." Paper presented to a meeting of the Ad Hoc Expert Group of the Secretary General of the United Nations Conference on Trade and Development (UNCTAD), Kiel Institute of World Economics, September, Kiel, Germany.
- Stalker, Peter. 1997. Global Nations: The Impact of Globalization on International Migration. Geneva: International Labour Office, Employment and Training Department.
- Standard & Poor's. 1999. Email correspondence on sovereign ratings history. 9 March.
- Stewart, Frances, and Sam Daws. 1996. "An Economic Social Security Council at the United Nations." Prepared for a conference in honour of the 85th birthday of Professor Sir Hans Singer, May, Innsbruck, New York.
- UN (United Nations). 1993. "Statistical Chart on World Families." Statistics Division and the Secretariat for the International Year of the Family. New York.
- ——, 1994. Women's Indicators and Statistics Database. Version 3, CD-ROM. Statistics Division. New York.
- ——. 1996a. "Factsheet on Women in Government as at January 1996." Division for the Advancement of Women. New York.
- ——. 1996b. World Urbanization Prospects: The 1996 Revision. Database. Population Division. New York.
- Geneva.

  1998a. Basic Facts about the United Nations. New
- York.

  ——. 1998b. Debt Situation of the Developing Countries as
- of Mid-1998. Report of the secretary-general. New York.
  ——, 1998c. Energy Statistics Yearbook 1996. New York.
- 1998d. Guatemala: Los Contrastes del Desarrollo Humano-Edicion 1998. Auspiciado por el Sistema de las Naciones Unidas. Guatemala City.
- ——. 1998e. "Statement by International Organization for Migration to 53rd Session of the General Assembly." New York.
- —. 1998f. Towards a New International Financial Architecture. Executive Committee of Economic and Social Affairs, Task Force. New York.
- ——, 1998g. World Economic and Social Survey 1998.
  New York.
- 1998h. World Population Prospects 1950–2050: The 1998 Revision. Database. Population Division. New York.

- ----- 1999a. Demographic Yearbook 1997. New York.
- ——, 1999b. Fifth United Nations Survey of Crime Trends and Operations of Criminal Justice Systems. United Nations Office at Vienna, Crime Prevention and Criminal Justice Division. Vienna. [http://www.ifs. univie.ac.at/~uncjin/wcs]. March 1999.
- ——. 1999c. "Multilateral Treaties Deposited with the Secretary-General." New York. [http://www.un.org/ Depts/Treaty]. March 1999.
- UNAIDS (Joint United Nations Programme on HIV/AIDS) and WHO (World Health Organization). 1998a. Aids Epidemic Update: December 1998. Geneva. [http://www.who.org/emc\_hiv/global\_report/data/globalrep\_e.pdf]. March 1999.
- 1998b. Report on the Global HIV/AIDS Epidemic. Geneva. [http://www.who.org/emc\_hiv/global\_ report/data/globrep\_e.pdf].
- UNCTAD (United Nations Conference on Trade and Development). 1996a. Globalisation and Liberalisation: Effects of International Economic Relations on Poverty. Geneva.
- —— 1996b. The TRIPS Agreement and Developing Countries. New York and Geneva.
- ——. 1997. World Investment Report. New York and Geneva.
- ——, 1998a, The Least Developed Countries 1998 Report. New York and Geneva.
- ——. 1998b. Trade and Development Report 1998. New York and Geneva.
- —— 1999. Email correspondence on unpublished data on foreign direct investment. Division on Transnational Corporations and Investment. 20 January. New York and Geneva.
- UNDCP (United Nations International Drug Control Programme), 1997. World Drug Report, Vienna.
- UNDP (United Nations Development Programme). 1990.
  Human Development Report 1990. New York:
  Oxford University Press.
- 1994. Human Development Report 1994. New York: Oxford University Press.
- —— 1995. Human Development Report 1995. New York: Oxford University Press.
- 1997a. Human Development Report 1997. New York: Oxford University Press.
- ——. 1997b. The Shrinking State: Governance and Sustainable Human Development. Regional Bureau for Europe and the CIS. New York.
- —— 1998a. Albanian Human Development Report 1998. Tirana.
- 1998b. Estonian Human Development Report 1998. Tallinn.
- 1998c. Human Development Report 1998. New York: Oxford University Press.
- —— 1998d. Human Development Report: Kazakhstan 1998—Social Integration and the Role of the State in the Transition Period. Almaty.
- —— 1998e. National Human Development Report: Belarus—State, Governance, People. Minsk.
- ——. 1998f. Social Implications of the Asian Financial Crisis. United Nations Development Programme– Economic Management and Development for Asian and the Pacific. Joint Policy Studies 9. Seoul: Korea Development Institute.

- UNDP (United Nations Development Programme) and Botswana, Government of. 1997. Botswana Human Development Report 1997. Gaborone.
- UNDP (United Nations Development Programme) and UNAIDS (Joint United Nations Programme on HIV/AIDS), 1998. HIV/AIDS and Human Development—South Africa. Pretoria.
- UNECE (United Nations Economic Commission for Europe). 1999a. Trends in Europe and North America 1998–99. New York and Geneva.
- \_\_\_\_\_, 1999b. Correspondence on injuries and deaths from road accidents. March. New York and Geneva.
- UNESCO (United Nations Educational, Scientific and Cultural Organization). 1996. Correspondence on gross enrolment ratios. December. Paris.
- ——. 1997. Correspondence on gross enrolment ratios. November. Paris.
- \_\_\_\_\_\_, 1998a, Statistical Yearbook 1998, Paris.
- \_\_\_\_\_. 1998b. World Cultural Report. Paris.
- \_\_\_\_\_. 1998c. World Education Report 1998. Paris.
- \_\_\_\_\_. 1998d. World Science Report 1998. Paris.
- ——. 1999a. Correspondence on adult literacy rates. January. Paris.
- ——, 1999b. Correspondence on gross enrolment ratios April. Paris.
- ——. 1999c. Correspondence on gross enrolment ratios. February. Paris.
- 1999d. Correspondence on net enrolment ratios. Feb ruary. Paris.
- 1999e. Correspondence on rate of survival to grade 5 of primary education. February. Paris.
- UNFPA (United Nations Population Fund) in collaboration with the Australian National University. 1998. Southeast Asian Population in Crists: Challenges to the Implementation of the ICPD Programme of Action New York.
- UNHCHR (United Nations High Commissioner for Human Rights). 1998. The Right of Peoples to Self-Determination and Its Application to Peoples under Colonial or Alien Domination or Foreign Occupation. Report submitted by the special rapporteur on mercenaries. Geneva.
- UNHCR (United Nations High Commissioner for Refugees).
  1998. Refugees and Others of Concern to UNHCR
  1997, Statistical Overview. Geneva.
- UNICEF (United Nations Children's Fund). 1998a. Progress of Nations 1998. New York: Oxford University Press
- ——.1998b. The State of the World's Children 1998. New York: Oxford University Press.
- ——.1999a. The State of the World's Children 1999. New York: Oxford University Press.
- 1999b. Correspondence on infant mortality and under-five mortality rates. February. New York.
- Uppsala Conflict Data Project. 1999. Correspondence on major armed conflict. Uppsala University, Department of Peace and Conflict Research. March. Uppsala, Sweden.
- USAID (United States Agency for International Development). 1999. "Women as Chattel: The Emerging Global Market in Trafficking." Gender Matters Quarterly, no. 1. Office of Women in Development, Gender Research Project. Washington, DC.
- Visser, Jelle, and Anton Hemerijck. 1997. A Dutch Miracle. Job Growth, Welfare Reform and Corporatism in the Netherlands. Amsterdam: Amsterdam University Press.

- von Weizsacker, Christine. 1998. "Promises of Paradise: Diverse, Multi-Layered and Conflicting Global Perspectives." Policy paper presented at the symposium on Amending Directive 90/220/EEC: Safety and Control of GMOs, convened by the Austrian Federal Chancellery, 23 September, Vienna.
- Wahba, Jackline, and Mahmoud Mohieldin. 1998. "Liberalizing Trade in Financial Services: The Uruguay Round and the Arab Countries." World Development 26(7): 1331–48.
- Weekly Mail and Guardian. 1998. "Indigenous Knowledge at Risk." Johannesburg. 18 December.
- Whalley, John, and Colleen Hamilton. 1996. The Trading System after the Uruguay Round. Washington, DC: Institute for International Economics.
- White, Kathryn. 1999. Email correspondence on the electronic witches of Bosnia. 25 March.
- WHO (World Health Organization). 1997. Tobacco or Health: A Global Status Report. Geneva.
- 1998a. The World Health Report 1998. Geneva.
- 1998b. World Health Statistics Annual 1996. Geneva.
- WIPO (World Intellectual Property Organization). 1997.
  Implications of the TRIPS Agreement on Treaties
  Administered by WIPO. Geneva.
- \_\_\_\_\_ 1998. General Information. Geneva.
- WMO (World Meteorological Organisation). 1998. "The First Intergovernmental Meeting of Experts Reviews the 1997–98 El Niño Event." 17 November. Geneva.
- Woods, Ngaire. 1998. "Editorial Introduction: Globalization: Definitions, Debates and Implications." Oxford Development Studies 26(1): 5–13.
- World Bank. 1993. World Development Report 1993: Investing in Health. New York: Oxford University Press.
  - -. 1995. World Development Report 1995: Workers in an Integrating World. New York: Oxford University Press
- .1996. World Bank Atlas 1996 Washington, DC.
- 1997a. World Development Indicators 1997. Washington, DC.

- ——. 1997b. World Development Indicators 1997. CD-ROM Washington, DC.
- ——. 1998a. East Asia: The Road to Recovery. Washington, DC.
- ——. 1998b. Global Development Finance 1998. Washington, DC.
- 1998c. World Development Indicators 1998. CD-ROM. Washington, DC.
- ——. 1999a. Global Economic Prospects and the Developing Countries 1998/99. Washington, DC.
- ——, 1999b. World Development Indicators 1999. CD-ROM. Washington, DC.
- ——, 1999c, World Development Report 1998/99: Knowledge for Development, New York: Oxford University Press.
- ——. 1999d. "The World Bank Responds to Hurricane Mitch." [http://www.worldbank.org/html/extdr/offrep/ lac/mitch.htm]. March 1999.
- 1999e. Correspondence on the percentage of population with access to health services. Development Economics Data Group. March. Washington, DC.
- ——. 1999f. Correspondence on unpublished World Bank data on GDP per capita (PPP\$) for 1997. Development Economics Data Group. February. Washington, DC.
- World Commission on Culture and Development. 1995. Our Creative Diversity. Paris: United Nations Educational, Scientific and Cultural Organization.
- World Times and IDC (International Data Corporation).

  1999. The 1999 World Times/IDC Information Society Index: Measuring Progress towards a Digital Future. Boston.
- WRI (World Resources Institute). 1998. World Resources 1998–99. New York: Oxford University Press.
- Yoon, Je Cho, and Changyong Rhee. 1998. "The East Asian Crisis and Macroeconomic Adjustment." Presented at the World Bank Conference on Asian Corporate Recovery, Corporate Governance and Role of Governments, 31 March-12 April, Bangkok.
- Zohir, Salma Chaudhuri. 1998. "Gender Implications of Industrial Reforms and Adjustment in the Manufacturing Sector of Bangladesh." PhD diss. University of Manchester.

REFERENCES



## I. Monitoring human development: enlarging people's choices . . .

What do the human development indices reveal? 127

- 1 Human development index 134
- 2 Gender-related development index 138
- 3 Gender empowerment measure 142
- 4 Human poverty in developing countries 146
- 5 Human poverty in industrialized countries, Eastern Europe and the CIS 149
- 6 Trends in human development and per capita income 151
- 7 Trends in human development and economic growth 155

Technical note 159

#### II. . . . TO LEAD A LONG AND HEALTHY LIFE . . .

- 8 Progress in survival 168
- 9 Health profile 172

### III. ... TO ACQUIRE KNOWLEDGE ...

10 Education imbalances 176

## IV. ... TO HAVE ACCESS TO THE RESOURCES NEEDED FOR A DECENT STANDARD OF LIVING ...

- 11 Economic performance 180
- 12 Macroeconomic structure 184
- 13 Resource use imbalances 188
- 14 Aid flows from DAC member countries 192
- 15 Aid and debt by recipient country 193

### V. . . . WHILE PRESERVING IT FOR FUTURE GENERATIONS . . .

- 16 Demographic trends 197
- 17 Energy use 201
- 18 Profile of environmental degradation 205
- 19 Managing the environment 209

#### VI. . . . ENSURING HUMAN SECURITY . . .

- 20 Food security and nutrition 211
- 21 Job security 215
- 22 Profile of political life 217
- 23 Crime 221
- 24 Personal distress 225

## VII. . . . AND ACHIEVING EQUALITY FOR ALL WOMEN AND MEN

- 25 Gender gaps in education 229
- 26 Gender gaps in economic activity 233
- 27 Gender gaps in work burden and time allocation 237
- 28 Gender gaps in political participation 238

## 29 STATUS OF SELECTED INTERNATIONAL HUMAN RIGHTS INSTRUMENTS 242

## 30 Basic indicators for other UN member countries 246

Note on statistics in the Human Development Report 247

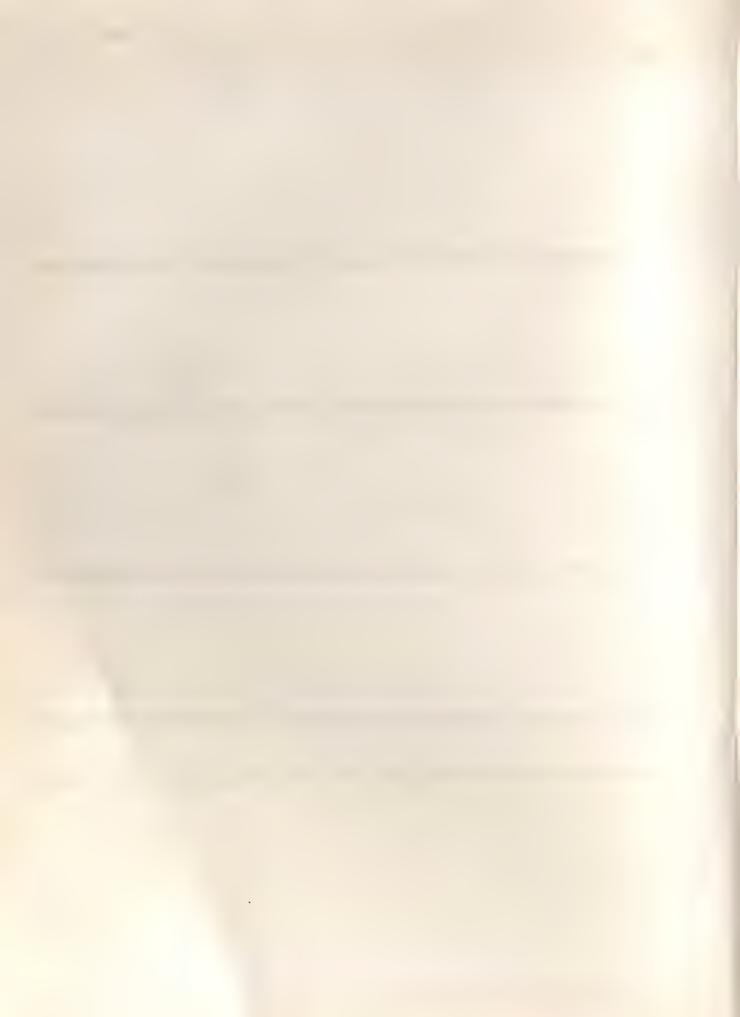
Primary statistical references 251

Definitions of statistical terms 253

Classification of countries 257

Key to countries 260

Index to indicators 261





# What do the human development indices reveal?

Since first being published in 1990, the *Human Development Report* has developed and constructed several composite indices to measure different aspects of human development.

The human development index (HDI) has been constructed every year since 1990 to measure average achievements in basic human development in one simple composite index and to produce a ranking of countries. The gender-related development index (GDI) and the gender empowerment measure (GEM), introduced in Human Development Report 1995, are composite measures reflecting gender inequalities in human development. While the GDI captures achievements in basic human development adjusted for gender inequality, the GEM measures gender inequality in economic and political opportunities. Human Development Report 1997 introduced the concept of human poverty and formulated a composite measure of it—the human poverty index (HPI). While the HDI measures average

achievements in basic dimensions of human development, the HPI measures deprivations in those dimensions. Table 1 presents the basic dimensions of human development reflected in the human development indices, and the indicators used to measure them, and table 2 shows the top and bottom five countries in the rankings for each of the indices.

# THE NEW HDI— BETTER DATA, BETTER METHOD

The concept of human development is much deeper and richer than what can be captured in any composite index or even by a detailed set of statistical indicators. Yet to monitor progress in human development, a simple tool is needed. Thus the HDI reflects achievements in the most basic human capabilities—leading a long life, being knowledgeable and enjoying a decent standard of living. Three variables have been chosen to represent those dimensions

Index	Longevity	Knowledge	Decent standard of living	Participation or exclusion
HDI	Life expectancy at birth	Adult literacy rate     Combined enrolment ratio	Adjusted per capita income in PPP\$	_
GDI	Female and male life expectancy at birth	Female and male adult literacy rate     Female and male combined enrolment ratio	Adjusted per capita income in PPP\$, based on female and male earned income shares	-
HPI-1 For developing countries	Percentage of people not expected to survive to age 40	Adult illiteracy rate	1. Percentage of people without access to safe water 2. Percentage of people without access to health services 3. Percentage of underweight children under five	-
HPI-2 For industrialized countries	Percentage of people not expected to survive to age 60	Adult functional illiteracy rate	Percentage of people living below the income poverty line (50% of median personal disposable income)	Long-term unemployment rate (12 months or more

Source: Human Development Report Office.

—life expectancy, educational attainment and income.

The HDI is a more comprehensive measure than per capita income. Income is only a means to human development, not an end. Nor is it the sum total of human lives. Thus by focusing on areas beyond income and treating income as a proxy for a decent standard of living, the HDI provides a more comprehensive picture of human life than income does.

With normalization of the values of the variables that make up the HDI, its value ranges

TABLE 2 Top and bottom five countries in the human development indices Bottom five Top five Index Burundi Canada HDI **Burkina Faso** Norway Ethiopia **United States** Niger Japan Sierra Leone Belaium Guinea-Bissau Canada **GDI** Burundi Norway Burkina Faso **United States** Ethiopia Australia Niger Sweden Jordan Norway **GEM** Mauritania Sweden Togo Denmark **Pakistan** Canada Niger Germany Central African Republic Barbados HPI-1 Trinidad and Tobago Ethiopia Sierra Leone Uruguay **Burkina Faso** Costa Rica Niger Cuba New Zealand Sweden HPI-2 Spain Netherlands United Kinadom Germany Ireland Norway **United States** Italy

Source: Human Development Report Office.

from 0 to 1. (The method for constructing the HDI is explained in detail in the technical note.) The HDI value for a country shows the distance that it has already travelled towards the maximum possible value of 1 and also allows comparisons with other countries. The difference between the value achieved by a country and the maximum possible value shows the country's shortfall—how far the country has to go. A challenge for every country is to find ways to reduce its shortfall.

The HDI has been evolving, and this year its methodology has been significantly refined on the basis of a thorough review of its concept and formulation. The changes are summarized in the technical note and discussed in detail in Anand and Sen (1999). This year's HDI also reflects new and improved data for 1997 for the indicators included in the HDI. And the availability of time series on various indicators has made it possible to construct a trend HDI for every five years for 1975–97.

- Methodological changes. Until now, in calculating the HDI, income above the cut-off point of world average per capita income has been discounted using a drastic discounting formula. In the new methodology this discounting has been made more gradual by taking the logarithm of income throughout. The rationale for the new treatment of income is given in the technical note.
- New and improved data series. This year's HDI is based on improved life expectancy data from the United Nations Population Division and revised data on adult literacy and combined gross primary, secondary and tertiary enrolment ratios from UNESCO. Data on purchasing power parities (PPP) have been

TABLE 3 Changes in HDI ranks due to revisions of data and	d methodology
Changes in HDI ranks due to revisions of data and	3 11100101093

		H	łDI		Rank changes due to revised data				Rank changes due to	Total
Country	1998 I	Report	1999	Report	Life	Adult	Gross	Income	refined	rank
	Rank <sup>a</sup>	Value	Rank	Value	expectancy	literacy	enrolment	(PPP\$)	methodology	changes
Brazil	62	0.809	79	0.739	-1	-1	+1	+3	-19	-17
Estonia	76	0.758	54	0.773	-1	0	+1	+17	+5	+22
Botswana	96	0.678	122	0.609	-8	+2	0	+9	-29	-26

a. Ranks have been recalculated to reflect the exclusion of the Democratic People's Republic of Korea from the HDF ranking in this year's Report. Source: Human Development Report Office

updated by the World Bank following the more comprehensive 1997–98 surveys by the International Comparison Programme (ICP).

Because of these changes, this year's HDI is not comparable with last year's. The improvements in methodology and data affect the HDI ranks of almost all countries. Thus if a country ranks lower or higher on the HDI this year compared with last year, that does not necessarily mean that its state of human development has deteriorated or improved. A drop or rise in rank could be attributed to the change in methodology or data. Moreover, the HDI rank of a country also depends on the performance of other countries. The examples of Brazil, Estonia and Botswana show how the improvements in methodology and data can affect countries' rankings (table 3).

#### WHAT DOES THE 1999 HDI REVEAL?

The HDI reveals the following state of human development:

- Of the 174 countries for which the HDI has been constructed this year, 45 are in the high human development category (with an HDI value equal to or more than 0.800), 94 in the medium human development category (0.500–0.799) and 35 in the low human development category (less than 0.500). Sixteen countries have experienced reversals in human development since 1990 due to the HIV/AIDS pandemic (mostly in Sub-Saharan Africa) or economic stagnation (in Sub-Saharan Africa and Eastern Europe and the CIS).
- Canada, Norway and the United States are at the top of the HDI ranking, and Sierra Leone, Niger and Ethiopia at the bottom. Wide disparities in global human development persist. Canada's HDI value of 0.932 is more than three times Sierra Leone's 0.254. Thus Canada has a shortfall in human development of only about 7%, Sierra Leone one of 75%.
- Disparities between regions can be significant, with some regions having more ground to cover in making up shortfalls than others (figure 1). Sub-Saharan Africa has more than twice as far to go as Latin America and the Caribbean, South Asia three times as far as East Asia (excluding China). Disparities within regions can also be substantial. In South-East

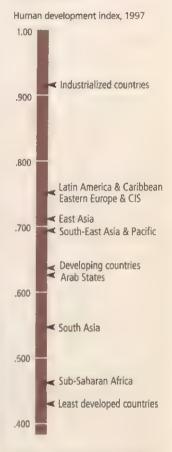
Asia and the Pacific HDI values range from 0.491 in the Lao People's Democratic Republic to 0.888 in Singapore. Among the Arab States they range from 0.412 in Djibouti to 0.833 in Kuwait.

- The link between economic prosperity and human development is neither automatic nor obvious. Two countries with similar income per capita can have very different HDI values; countries with similar HDI values can have very different income levels (figure 2 and table 4). Of the 174 countries, 92 rank higher on the HDI than on GDP per capita (PPP\$), suggesting that these countries have been effective in converting income into human development. But for 77 countries the HDI rank is lower than the GDP per capita (PPP\$) rank. These countries have been less successful in translating economic prosperity into better lives for people.
- New data series from the United Nations Population Division show that people in many countries live a much longer and healthier life than just two decades ago. In 31 of the 174

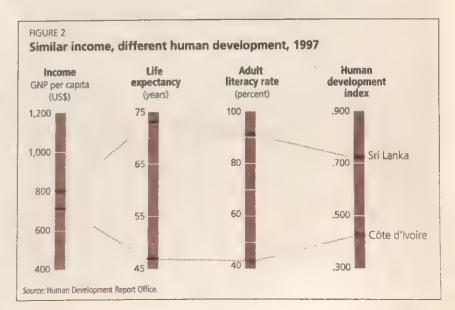
TABLE 4 Similar HDI, different income, 1997 Real GDP per capita Country HDI value (PPP\$) Spain 0.894 15,930 0.888 28,460 Singapore 0.729 1,960 Georgia 6,350 Turkey 0.728 0.582 3,310 Morocco 1,860 Lesotho 0.582

Source: Human Development Report Office.

FIGURE 1
Human development varies
among regions



Source: Human Development Report Office.



countries included in the HDI, life expectancy has increased by more than a fifth since 1975.

But the data also tell a tragic story. Between 1975 and 1997 life expectancy fell in 18 countries—10 in Africa, 8 in Eastern Europe and the CIS. In 4 countries, all in Sub-Saharan Africa, life expectancy declined by more than 10%: Zambia (17%), Zimbabwe (17%), Uganda (15%) and Botswana (14%) (figure 3). These large declines in such a relatively short time reveal the devastating effects of HIV/AIDS. For these countries, the HDI rank also dropped.

TRENDS IN HUMAN DEVELOPMENT, 1975-97

Between 1975 and 1997 most countries made substantial progress in human development, reducing their shortfall from the maximum possible value of the HDI. Of the 79 countries for which HDI trends between 1975 and 1997 are available, 54 made up more than 20% of their shortfall, 31 more than 30% and 19 more than 40%. And 6 countries managed a shortfall reduction of more than 50% (table 5). Zambia is the only country among those with data that had a lower HDI in 1997 than in 1975, largely as a result of the effects of HIV/AIDS on life expectancy.

0.644

0.324

0.378

0.431

0.497

0.282

0.342

0.453

29.0

6.0

5.5

-4.0

FIGURE 3
Setbacks in Africa
Life expectancy (years)
52
50
48
46
44
Zimbabwe
42
40
Zambia
Uganda
1975
1997

only country among those with data that had a lower HDI in 1997 than in 1975, largely as a result Source: UN 1998h. TABLE 5 Fastest and slowest progress in human development, 1975-97 For 79 countries with available data Shortfall reduction 1975-97 (%) 1975 HDI 1997 HDI Country Starting from high human development (0.800-1.000) 0.922 52.0 Fastest progress Australia 0.838 51.5 Norway 0.850 0.927 50.5 0.862 0.932 Canada 0.836 0.904 42.0 Austria Slowest progress 0.8430.901 37.0 New Zealand Denmark 0.861 0.905 31.5 Starting from medium human development (0.500-0.799) 0.888 57.5 0.737 Singapore **Fastest progress** 54.0 0.680 0.852 Korea, Rep. of Hong Kong, China (SAR) 51.0 0.757 0.880 0.695 16.0 0.637 Slowest progress South Africa 0.752 11.0 0.722 Romania 0.560 4.5 0.539 Zimbabwe Starting from low human development (0-0.499) 0.471 0.681 40.0 Indonesia Fastest progress 0.616 32.5 0.432 Egypt

Swaziland

Central African Republic

Burundi

Zambia

Slowest progress

The HDI trends also show that the speed of human progress is uneven. Countries can start at similar levels of human development, but advance at different speeds (figure 4). And countries can start at different levels of human development, yet end up in similar places. Whatever the initial situation, progress is often determined by the policy measures countries take to enhance their people's well-being.

#### HUMAN POVERTY AND DEPRIVATION

The human poverty index is a multidimensional measure of poverty. It brings together in one composite index the deprivation in four basic dimensions of human life—a long and healthy life, knowledge, economic provisioning and social inclusion. These dimensions of deprivation are the same for both developing and industrialized countries. Only the indicators to measure them differ, to reflect the different realities in these countries and because of data limitations.

For developing countries the deprivation in a long and healthy life is measured by the percentage of people not expected to survive to age 40, deprivation in knowledge by illiteracy and deprivation in economic provisioning by the percentage of people lacking access to health services and safe water and the percentage of children under five who are moderately or severely underweight. Two observations. First, for economic provisioning in developing countries, public provisioning is more important than private income. At the same time more than four-fifths of private income is spent on food. Thus in developing countries lack of access to health services and safe water and the level of malnutrition capture deprivation in economic provisioning more practically than other indicators. Second, the absence of a suitable indicator and lack of data prevent the human poverty index from reflecting deprivation in social inclusion in developing countries.

For industrialized countries deprivation in a long and healthy life is measured by the percentage of people not expected to survive to age 60, deprivation in knowledge by functional illiteracy, deprivation in economic provisioning by income poverty (as private income is the most important source of economic provisioning in industrialized countries) and deprivation in social inclusion by long-term unemployment.

The components and the results of the HPI-1 (for developing countries) and HPI-2 (for industrialized countries) are presented in indicator tables 4 and 5. The technical note presents a detailed discussion of the methodology for constructing the HPI-1 and HPI-2.

#### WHAT DOES THE HPI-1 REVEAL?

Calculated for 92 developing countries, the HPI-1 reveals the following:

- Human poverty ranges from a low 2.6% in Barbados to a high 65.5% in Niger. Several countries have an HPI-1 of less than 10%: Bahrain, Barbados, Chile, Costa Rica, Cuba, Fiji, Jordan, Panama, Trinidad and Tobago and Uruguay. These developing countries have overcome severe levels of poverty.
- The HPI-1 exceeds 33% in 37 of the 92 countries, implying that human poverty affects at least a third of the people in these countries. Others have still further to go in reducing human poverty. The HPI-1 exceeds 50% in Benin, Burkina Faso, the Central African Republic, Chad, Ethiopia, Guinea, Guinea-Bissau, Mali, Nepal, Niger and Sierra Leone, suggesting that poverty affects at least half the population.
- A comparison of HDI and HPI-1 values shows the distribution of achievements in human progress. Countries can have similar HDI values but different HPI values (figure 5).

#### WHAT DOES THE HPI-2 REVEAL?

The HPI-2 shows that human poverty is not confined to developing countries.

- Among the 17 industrialized countries included in the HPI-2, Sweden has the lowest human poverty, with 7%, followed by the Netherlands and Germany, with 8.3% and 10.4%. The industrialized countries with the highest poverty according to the HPI-2 are the United States (16.5%), Ireland (15.3%) and the United Kingdom (15.1%).
- A high HDI value does not automatically imply low levels of human deprivation. All 17 countries included in the HPI-2 have an HDI of at least 0.894, suggesting that they have achieved high levels of human development.

Yet their levels of human poverty vary. Sweden and the United Kingdom have almost the same HDI values, 0.923 and 0.918. But Sweden has an HPI-2 value of only 7%, while the United Kingdom's is 15.1%.

#### DISPARITIES WITHIN COUNTRIES

Differences in human development exist not only between countries and between North and South. National human development data, disaggregated by region, gender, ethnic group or rural and urban areas, reveal significant disparities within countries. And disparities of all kinds are interrelated and overlapping.

#### ... BETWEEN RURAL AND URBAN AREAS ...

When the HDI and the HPI are disaggregated along the rural-urban divide, they document higher progress in human development and less deprivation for people in urban areas than for those in rural areas. The rural-urban divide in Botswana provides a good example.

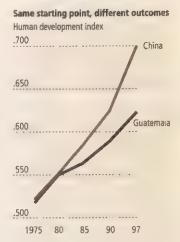
According to Botswana's national human development report, the country's HPI-1 dropped from 32.2% to 22% between 1991 and 1996. Yet poverty persists even today, though at very different levels in urban and rural areas (figure 6). People in Botswana's urban areas are better off, with an HPI-1 of 11.7%. In rural areas the HPI is more than twice as high—27%.

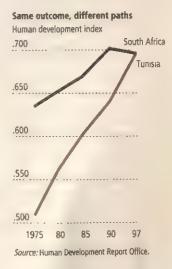
#### ... BETWEEN REGIONS OR DISTRICTS . . .

- In India the disaggregated HPI-1 shows strong disparities in poverty between states. Human deprivation is highest in the state of Bihar, in northeastern India, where the HPI-1 is 54%. The state of Kerala, in South India, has an HPI-1 of only 23%.
- The Mangistau and Zhambyl oblasts in Kazakhstan have very similar life expectancy and school enrolments. But they have very different HDI values, reflecting very different income levels. Mangistau has an HDI of 0.835 and a GDP per capita (PPP\$) of \$8,285—Zhambyl an HDI of 0.594 and a GDP per capita (PPP\$) of only \$1,650.
- In Cuba the provinces with big cities— Havana and Cienfuegos—on the southern

FIGURE 4

Different human progress





coast have the highest HDI values, 0.728 and 0.720. The lowest HDI values can be found in the provinces of Granma and Las Tunas, 0.372 and 0.435.

. . . BETWEEN ETHNIC GROUPS . . .

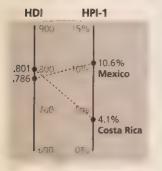
• In Nepal Brahmins have a life expectancy of 61 years, Muslims a life expectancy of only 49. Adult literacy among the Brahmins is 58%, among the Muslims only 22%.

. . . AND BETWEEN MEN AND WOMEN . . .

The HDI is a measure of average achievements and thus masks the differences in human development for men and women. So, other measures are needed to capture gender inequalities.

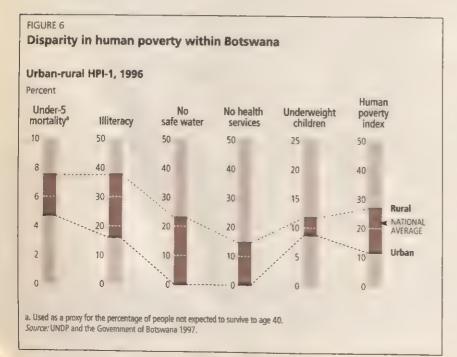
The gender-related development index attempts to capture achievement in the same dimensions as the HDI—life expectancy, educational attainment and income—but adjusts the results for gender inequality. The technical note presents a detailed discussion of the methodology of the GDI and of its components. Just as in the HDI, income in the GDI has been treated according to the refined methodology, so the GDI ranks of countries have been affected just as their HDI ranks have been.







Source: Human Development Report Office.



This year the GDI has been calculated for 143 countries. The GDI values and ranks reveal the following:

- The closer a country's GDI is to its HDI, the less gender disparity there is in the country. But the GDI for every country is lower than its HDİ, implying that there is gender inequality in every society.
- For 43 of the 143 countries for which the GDI has been calculated this year, the GDI rank is lower than the HDI rank, revealing the unequal progress in building women's capabilities compared with men's. In these countries—including Ecuador, Luxembourg and the United Arab Emirates—the average achievements in human development have not been equally distributed between men and women.
- For 60 countries the GDI rank is higher than the HDI rank, suggesting a more equitable distribution of human development between men and women. These countries are diverse: they include industrialized countries such as Australia and Sweden, transition economies in Eastern Europe and the CIS such as the Czech Republic and Slovenia and developing countries such as Thailand and Uruguay. These results show that greater gender equality in human development does not depend on income level or stage of development. And they show that it can be achieved across a range of cultures.

### ... INCLUDING IN POLITICAL AND PROFESSIONAL LIFE

The gender empowerment measure captures gender inequality in key areas of economic and political participation and decision-making. It thus focuses on women's opportunities rather than their capabilities as measured in the GDI. The methodology and the components of the GEM are discussed in detail in the technical note.

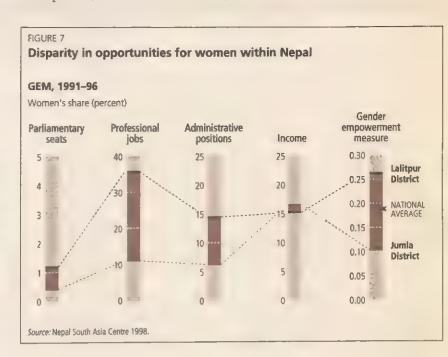
The GEM has been calculated this year for 102 countries, revealing the following:

• The top three countries are Nordic—Norway, Sweden and Denmark. These countries are not only good at strengthening the basic capabilities of women, they have also opened many opportunities for them to partic-

ipate in economic and political life. The GEM values are lowest in Niger (0.120), Pakistan (0.176) and Togo (0.185), implying that in these societies opportunities for women are much constrained.

- Only one country of the 102 has achieved a value of more than 0.800, and only 33 countries a GEM of more than 0.500. Seventy countries have GEM values less than 0.500. Thus many countries have much further to go in extending broad economic and political opportunities to women.
- Some developing countries outperform much richer industrialized countries in gender equality in political and professional activities. Costa Rica and Trinidad and Tobago are ahead of France and Italy, Israel outperforms Japan, and the Bahamas outranks Portugal. Greece's GEM value, at 0.404, is less than three-fourths that of Costa Rica, at 0.550. The crucial message of the GEM: high income is not a prerequisite for creating opportunities for women.
- Different regions of the same country allow women different roles in public life. The disaggregated GEM for Nepal shows large disparities between two districts, Lalitpur and Jumla (figure 7).

The composite indices of human development do not by themselves provide a comprehensive profile of human development in a country. To gain a complete picture, these indices must be supplemented with other indicators of human development (see indicator tables 8–30).



1	Human .	
	development index	

HDI rank	Life expectancy at birth (years) 1997	Adult literacy rate (%) 1997	Combined first-, second- and third- level gross enrolment ratio (%) 1997	Real GDP per capita (PPP\$) 1997	Life expectancy index	Education index	GDP index	Human development index (HDf) value 1997	Real GDP per capita (PPP\$) rank minus HDI rank*
High human development	77.0	98.3	**. 3. <b>89</b>	21,647	. 0.87	. 0.95	0.90	0.904	44
1 Canada	79.0	99.0 b	99	22,480	0.90	0.99	0.90	0.932	
2 Norway	78.1	99.0 b	95	24,450	0.89	0.98	0.92	0.927	12
3 United States	76.7	99.0 b	94	29,010	0.86	0.97	0.95	0.927	5
4 Japan	80.0	99.0 b	85	24,070	0.92	0.94	0.93	0.927	0
5 Belgium	77.2	99.0 b	100 €	22,750	0.87	0.99	0.91	0.923	5
6 Sweden	78.5	99.0 b	100 °						0
7 Australia	78.2	99.0 6	100 °	19,790	0.89	0.99	0.88	0.923	18
8 Netherlands	77.9	99.0 b	98	20,210	0.89	0.99	0.89	0.922	15
9 Iceland	79.0	99.0 b	87	21,110 22,497 <sup>d</sup>	0.88	0.99	0.89	0.921	9
10 United Kingdom	77.2	99.0 b	100 °	*	0.90	0.95	0.90	0.919	3
11 France	78,1			20,730	0.87	0.99	0.89	0.918	9
12 Switzerland	78.6	99.0 b	92	22,030	0.89	0.97	0.90	0.918	4
13 Finland	76.8	99.0 b	79	25,240	0.89	0.92	0.92	0.914	-6
14 Germany	77.2		99	20,150	0.86	0.99	0.89	0.913	10
15 Denmark	75.7	99.0 b	88	21,260	0.87	0.95	0.89	0.906	2
16 Austria			89	23,690	0.84	0.96	0.91	0.905	-5
17 Luxembourg	77.0	99.0 b	86	22,070	0.87	0.95	0.90	0.904	
_	76.7	99.0 6	69	30,863 d	0.86	0.89	0.96	0.902	-2
18 New Zealand 19 Italy	76.9	99.0 0	95	17,410	0.87	0.98	0.86	0.902	16
20 Ireland	78.2	98.3	82	20,290	0.89	0.93	0.89	0.900	9
	76.3	99.0 b	88	20,710	0.86	0.95	0.89	0.900	Ó
21 Spain	78.0	97.2	92	15,930					Ų
22 Singapore	77.1	91.4	73	28,460	88.0	0.95	0.85	0.894	9
23 Israel	77.8	95.4	80	18,150	0.87	0.85	0.94	0 888	18
24 Hong Kong, China (SAR)	78.5	92.4	65	24,350	0.88	0.90	0.87	0.883	3
25 Brunei Darussalam	75.5	90.1	72	29,773 4	0.89	0.83	0.92	0.880	-16
26 Cyprus	77.8	95,9			0.84	0.84	0.95	0.878	-23
27 Greece	78.1	96,6	79 *	14,201 d	0.88	0.90	0.83	0.870	6
28 Portugal	75.3	90,8	79	12,769 d	0.89	0.91	0.81	0.867	8
29 Barbados	76.4	97.6	91	14,270	0.84	0.91	0.83	0.858	3
30 Korea, Rep. of	72.4	97.2	80	12,001 d	0.86	0.92	0.80	0.857	8
31 Bahamas			90	13,590	0.79	0.95	0.82	0.852	3
32 Malta	73,8	95.8	74	16,705 d	0.81	0.88	0.00	0.051	-
33 Slovenia	77.2	91.1	78	13,180	0.87	0.87	0.85 0.81	0.851	-3
34 Chile	74.4	99.0 1	76	11,800	0.82	0.91	0.80	0.850	2
35 Kuwait	74.9	95.2	77	12,730	0.83	0.89	0.81	0.845	5
	75.9	80.4	57	25,314 d	0.85	0.73	0.92	0.844 0.833	-30
36 Czech Republic	73.9	99.0 6	74	10,510					-30
37 Bahrain	72.9	86.2	81	16,527 d	0.81	0.91	0.78	0.833	3
38 Antigua and Barbuda	75.0 9	95.0 g h	76 b	9,692 4	0.80	0.85	0.85	0.832	-8
39 Argentina	72.9	96.5	79	10,300	0.83	0.89	0.76	0.828	5
40 Uruguay	73.9	97.5	77	9,200	0.80 0.82	0.91	0.77	0.827	1
41 Qatar	71.7	80.0				0.91	0.75	0.826	5
42 Slovakia	73.0	99.0 b		20,987 4	0.78	0.77	0.89	0.814	-23
43 United Arab Emirates	74.8	74.8	75 59	7,910	0.80	0.91	0.73	0.813	9
14 Poland	72.5	99.0 '	69 77	19,115 d	0.83	0.73	0.88	0.812	-18
45 Costa Rica	76.0	95.1	66	6,520	0.79	0.92	0.70	0.802	18
dium human development	66.6			6,650	0.85	0.85	0.70	0.801	16
16 Tranidad and Tobago		75.9	64	3,327	0.69	0.72	0.58	0.662	-
7 Hungary	73.8 <b>70.9</b>	97.8	66	6,840	0.81	0.87	0.71	0.797	
18 Venezuela		99.0 1	74	7,200	0.76	0.91	0.71	0.795	11
19 Panama	72.4 73.6	92.0	67	8,860	0.79	0.84	0.75	0.792	-2
60 Mexico	73.0	91.1	73	7,168 d	0.81	0.85	0.71	0.792	7
	I died.	90.1	70	8,370	0.79	0.83	0.74	0.786	-

1 Human development

index	Life expectancy at birth (years)	Adult literacy rate (%)	Combined first-, second- and third- level gross enrolment ratio (%)	Real GDP per capita (PPP\$)	Life expectancy	Education	GDP	Human development index (HDI) value	Real GDP per capita (PPP\$) rank minus HDI
HDI rank	1997	1997	1997	1997	index	index	index	1997	rank*
51 Saint Kitts and Nevis	70.0 9	90.0 s.h	78 b	8,017 <sup>d</sup>	0.75	0.86	0.73	0.781	-1
52 Grenada	72.0 1	96.0 g.h	78 b	4,864 d	0.78	0,90	0.65	0.777	22
53 Dominica	74.0 9	94.0 1	77 b	4,320	0.82	0.88	0.63	0.776	27
54 Estonia	68.7	99.0 b	81	5,240	0.73	0.93	0.66	0.773	15
55 Croatia	72.6	97.7	67	4,895 4	0.79	0.88	0.65	0.773	18
56 Malaysia	72.0	85.7	65	8,140	0.78	0.79	0.73	0.768	-7
57 Colombia	70.4	90.9	71	6,810	0.76	0.84	0.70	0.768	1
58 Cuba	75.7	95.9	72	3,100 b	0.84	0.88	0.57	0.765	47
59 Mauritius	71.4	83.0	63	9,310	0.77	0.76	0.76	0.764	-15
60 Belarus	68.0	99.0	80	4,850	0.72	0.93	0.65	0.763	15
61 Fiji	72.7	91.8	80	3,990	0.79	0.88	0.62	0.763	26
62 Lithuania	69.9	99.0 f	75	4,220	0.75	0.91	0.62	0.761	22
63 Bulgaria	71.1	98.2	70	4,010	0.77	0.89	0.62	0.758	23
64 Suriname	70.1	93.5	71 b	5,161 d	0.75	0.86	0.66	0.757	6
65 Libyan Arab Jamahiriya	70.0	76.5	92	6,697 d	0.75	0.82	0.70	0.756	-6
66 Seychelles	71.0 9	84.0 9 h	61 b	8,171 <sup>d</sup>	0.77	0.76	0.73	0.755	-18
67 Thailand	68.8	94.7	59	6,690	0.73	0.83	0.70	0.753	-7
68 Romania	69.9	97.8	68	4,310	0.75	0.88	0.63	0.752	13
69 Lebanon	69.9	84.4	76	5,940	0.75	0.82	0.68	0.749	-4
70 Samoa (Western)	71.3	98.0 sh	66	3,550	0.77	0.87	0.60	0.747	22
71 Russian Federation	66.6	99.0 f	77	4,370	0.69	0.92	0.63	0.747	8
72 Ecuador	69.5	90.7	73	4,940	0.74	0.85	0.65	0.747	0
73 Macedonia, TFYR	73.1	94.0 b	70	3,210	0.80	0.86	0.58	0.746	28
74 Latvia	68.4	99.0 f	71	3,940	0.72	0.90	0.61	0.744	15
75 Saint Vincent and the Grenadines	73.0 9	82.0 g h	78 b	4,250 d	0.80	0.81	0.63	0.744	8
76 Kazakhstan	67.6	99.0 b	76	3,560	0.71	0.91	0.60	0.740	15
77 Philippines	68.3	94.6	82	3,520	0.72	0.90	0.59	0.740	16
78 Saudi Arabia	71.4	73.4	56	10,120	0.77	0,67	0.77	0.740	-37
79 Brazil	66.8	84.0	80	6,480	0.70	0.83	0.70	0.739	-16
80 Peru	68.3	88.7	78	4,680	0.72	0.85	0.64	0.739	-3
				· ·					
81 Saint Lucia	70.0 9	82.0 h/	74 b	5,437 d	0.75	0.79	0.67	0.737	-14
82 Jamaica	74.8	85.5	63	3,440	0.83	0.78	0.59	0.734 0.732	15
83 Belize	74.7	75.0 N	72	4,300	0.83	0.74	0.63 0.61	0.732	-1 4
84 Paraguay	69.6	92.4	64	3,980	· 0.74 0.80	0.83 0.90	0.50	0.729	37
85 Georgia	72.7	99.0 g.h	71	1,960					
86 Turkey	69.0	83.2	61	6,350	0.73	0.76	0,69	0.728	-22
87 Armenia	70.5	98.8 b	72	2,360	0.76	0.90	0,53	0.728	26
88 Dominican Republic	70.6	82.6	66	4,820	0.76	0.77	0.65	0.726	-12
89 Oman	70.9	67.1	58	9,960 d	0.76	0.64	0.77	0.725	-47
90 Sri Lanka	73.1	90.7	66	2,490	0.80	0.82	0.54	0,721	22
91 Ukraine	68.8	99.0 14	77	2,190	0.73	0.92	0.52	0.721	27
92 Uzbekistan	67.5	99.0	76	2,529 d	0.71	0.91	0.54	0.720	19
93 Maldives	64.5	95.7	74	3,690	0.66	0.89	0.60	0.716	-3
94 Jordan	70.1	87.2	66 b	3,450	0.75	0.80	0.59	0,715	2
95 Iran, Islamic Rep. of	69.2	73.3	72	5,817 d	0.74	0.73	0.68	0.715	-29
·						0.95	0.51	0.712	24
96 Turkmenistan	65.4	98.0 5 h	90 k	2,109 d	0.67		0.52	0.702	19
97 Kyrgyzstan	67.6	97.0 9 1	69	2,250	0.71	0.88 0.78	0.57	0.702	6
98 China	69.8	82.9	69	3,130	0.75	0.78	0.57	0.701	2
99 Guyana	64.4	98.1	64	3,210	0,66	0.67	0.56	0.701	19
100 Albania	72.8	85.0 b	68	2,120	0.80	0.75	0.51	0.033	13

1 Human development index

HDI rank	Life expectancy at birth (years) 1997	Adult literacy rate (%) 1997	Combined first-, second- and third- level gross enrolment ratio (%) 1997	Real GDP per capita (PPPS) 1997	Life expectancy index	Education index	GDP index	Human development index (HDI) value 1997	Real GDP per capita (PPP\$) rank minus HDI rank*
101 South Africa	54.7	84.0	93	7.200	0.50				
102 Tunisia	69.5	67.0	70	7,380 5,300	0.50 0.74	0.87	0.72	0.695	-47
103 Azerbaijan	69.9	96.3 b	71	1,550		0.68	0.66	0.695	-34
104 Moldova, Rep. of	67.5	98.3	70	1,500	0.75	0.88	0.46	0.695	34
105 Indonesia	65.1	85.0	64	3,490	0.71 0.67	0.89	0.45	0.683	35
106 Cape Verde					0.07	0.78	0.59	0.681	-11
107 El Salvador	68.9	71.0	77	2,990	0.73	0.73	0.57	0.677	•
108 Tajikistan	69.1	77.0	64	2,880	0.74	0.73	0.56	0.674	
109 Algeria	67.2	98.9	69	1,126 d	0.70	0.89	0.40	0 665	100
110 Viet Nam	68.9	60.3	68	4,460	0.73	0.63	0.63	0.665	-31
	67.4	91.9	62	1,630	0.71	0.82	0.47	0.664	23
111 Syrian Arab Republic	68.9	71.6	60	3,250	0.73	0.68	0.50		
112 Bolivia	61.4	83.6	70	2,880	0.61	0.79	0.58	0.663	-11
113 Swaziland	60.2	77.5	73	3,350	0.59	0.76	0.56	0.652	-4
114 Honduras	69.4	70.7	58	2,220	0.74	0.76	0.59	0.644	-15
115 Namibia	52,4	79.8	82	5,010	0.46		0.52	0.641	3
116 Vanuatu	67.4	64.0 s h				0.81	0.65	0.638	-44
117 Guatemaia	64.0	66.6	47	3,480	0.71	0.58	0.59	0.627	-21
118 Solomon islands	71.7		47	4,100	0.65	0.60	0.62	0.624	-32
119 Mongolia	65.8	62,0 sh	46	2,310	0.78	0.57	0.52	0.623	-3
120 Egypt	66.3	84.0	55	1,310	0.68	0.74	0.43	0.618	26
		52.7	72	3,050	0.69	0.59	0.57	0.616	-14
121 Nicaragua	67.9	63.4	63	1,997 4	0.71	0.63	0.50		
122 Botswana	47.4	74.4	70	7,690	0.37	0.73	0.30	0.616	0
123 São Tomé and Principe	64.0 9	75.0 1	57 b	1,851 4	0.65	0.69		0.609	-
124 Gabon	52.4	66.2	60 1	7,550	0.46	0.64	0.49 <b>0.72</b>	0.609	7
125 Iraq	62.4	58.0 g.h	51	3,197 4	0.62	0.56		0.607	-71
126 Morocco	66.6	45.9	49				0.58	0.586	-22
127 Lesotho	56.0	82.3	58	3,310	0.69	0.47	0.58	0.582	-27
128 Myanmar	60,1	83.6	55	1,860	0.52	0 74	0 49	0.582	7
129 Papua New Guinea	57.9	73.7	37	1,199 4	0 59	0.74	0.41	0.580	73
130 Zimbabwe	44.1	90.9	68	2,654 *	0.55	0.61	0.55	0.570	19
131 Equatorial Guinea			00	2,350	0.32	0.83	0.53	0.560	-16
132 India	50.0	79.9	64 *	1,817 4	0.42	0.75	0.48	0.549	-3
133 Ghana	62.6	53.5	55	1,670	0.63	0.54	0.47	0.545	-1
134 Cameroon	60.0	66.4	42	1,640	0.58	0.58	0.47	0.544	-1
135 Congo	54.7	71.7	. 43	1,890	0.50	0.62	0.49		
	48.6	76.9	68	1,620	0.39	0.74	0.46	0.536 0.533	-11 -1
136 Kenya	52.0	79.3	50	1,190	0.45				
137 Cambodia	53.4	66.0	61	1,290	0.45	0.69	0.41	0.519	16
138 Pakistan	64.0	40.9	43	1,560	0.47	0.64	0.43	0.514	10
139 Comoros	58.8	55.4	39	1,530	0.65	0.41	0.46	0.508	-3
Low human development	50.6	48.5			0.56	0 50	0 46	0.506	-1
140 Lao People's Dem. Rep.			39	982	0.43	0.45	0.38	0.416	-
141 Congo, Dem. Rep. of the	53.2	58.6	55	1,300	0.47	0.57	0.43	0,491	6
142 Sudan	50.8	77.0 h	39	880	0.43	0.64	0.36		6
143 Togo	55.0 48.8	53.3	34	1,560	0.50	0.47	0.46	0.479 0.475	21 -7
144 Nepal	46.6 57.3	53.2	61	1,490	0.40	0.56	0.45	0.473	-3
145 Bhutan		38.1	59	1,090	0.54	0.45	0.40	0.469	-3 11
	60.7	44.2	12	1,467 4	0.60	0.33	0.45	0.459	-3
146 Nigeria	50.1	59.5	54	920					
147 Madagascar	57.5	47.0 NJ	39	930	0.42	0.58	0.37	0.456	15
148 Yemen	58.0	42.5	49	810	0.54	0.44	0.37	0.453	13
149 Mauritania	53.5	38.4		1,730	0.55	0.45	0.35	0.449	18
150 Bangladesh	58,1	38.9		1,050	0.47 0.55	0.39	0.48	0.447	-20
				.,	V.J.J	0.38	0.39	0.440	6

#### Human development

development	Life expectancy at birth (years) 1997	Adult literacy rate {%) 1997	Combined first-, second- and third- level gross enrolment ratio (%) 1997	Real GDP per capita (PPP\$) 1997	Life expectancy index	Education index	GDP index	Human development index (HDI) value 1997	Real GDP per capita (PPP\$) rank minus HDI rank <sup>a</sup>
)i rank						0.67	0.38	0.431	8
151 Zambia	40.1	75.1	49	960	0.25 0.48	0.67 0.39	0.38	0.430	-4
152 Haiti	53.7	45.8	24	1,270	0.46	0.35	0.48	0,426	-24
153 Senegal	52.3	34.6	35	1,730		0.42	0.49	0,422	-27
154 Côte d'Ivoire	46.7	42.6	40	1,840	0.36	0.42	0.42	0.421	-7
155 Benin	53.4	33.9	42	1,270	0.47				
	47.9	71.6	33	580	0.38	0.59	0.29	0.421	16
156 Tanzania, U. Rep. of	50.4	48.3	21	1,266 <sup>d</sup>	0.42	0.39	0.42	0.412	-7
157 Djibouti	39.6	64.0	40	1,160	0.24	0.56	0.41	0.404	-5
158 Uganda		57.7	75	710	0.24	0.63	0.33	0,399	10
159 Malawi	39.3 46.5	45.0 Ni	27	1,430	0.36	0.39	0.44	0.398	-17
160 Angola				Ť	0.36	0.34	0.49	0.398	-37
161 Guinea	46.5	37.9	28	1,880	0.37	0.43	0.38	0.393	-4
162 Chad	47.2	50.3	29	970	0.37	0.36	0.45	0.391	-22
163 Gambia	47.0	33.1	41	1,470		0.56	0.31	0.379	6
164 Rwanda	40.5	63.0	43	660	0.26	0.37	0.43	0.378	-21
165 Central African Republic	44.9	42.4	26	1,330	0.33				1
	53.3	35.5	25	740	0.47	0.32	0.33	0.375	-2
166 Mali	50.8	25.0	27	820	0.43	0.26	0,35	0.346	-2 -5
167 Eritrea	45.0	33.6	34	861 <sup>d</sup>	0.33	0.34	0.36	0.343	
168 Guinea-Bissau		40.5	25	740	0.34	0.35	0.33	0.341	-2
169 Mozambique	45.2	44.6	23	630	0,29	0.37	0.31	0.324	1
170 Burundi	42.4				0.32	0.20	0.39	0.304	-14
171 Burkina Faso	44.4	20.7	20	1,010	0.31	0.32	0.27	0.298	1
172 Ethiopia	43.3	35.4	24	510	0.39	0.14	0.36	0.298	-9
173 Niger	48.5	14.3	15	850	0.20	0.32	0.24	0.254	0
174 Sierra Leone	37.2	33.3	30 °	410	0.20	0.32			
				2.740	0 66	0.67	0.58	0.637	*
All developing countries	64.4	71.4	59	3,240	0.44	0.46	0.38	0.430	
Least developed countries	51.7	50.7	37	992	0.40	0.54	0.46	0.463	p.s.
Sub-1 at 11 at ATRICA	48.9	58.5	44	1,534	0.40	0.59	0.62	0.626	-
Arab States	65.1	58.6	59	4,094		0.79	0.60	0.712	
East 44 a	70.0	83.4	69	3,601	0.75 0.80	0.92	0.83	0.849	-
Eart As a (excluding China)	72.8	96.1	85	14,300		0.52	0.60	0.695	
Sr th Last Asia and the Pacific	65 9	87.9	65	3,697	0.68	0.52	0.48	0.544	-
So ith Asia	62.7	52.2	52	1,803	0.63	0.32	0.51	0.542	-
South As a exc'uding india)	63.0	48.4	47	2,147	0.63	0.46	0.71	0.756	-
Latin America and the Cambbean	69.5	87.2	72	6,868	0.74	0.82	0.63	0.754	+4
Eastern E rape and the CiS	68 6	98.7	76	4,243	0.73		0.03	0.919	-
Industrial zed countries	77.7	98.7	92	23,741	0.88	0.96	0.69	0.706	-
World	66.7	78.0	63	6,332	0.69	0.73	0.03	0., 00	

a A positive figure indicates that the HDI rank is better than the real GDP per capita (PPP\$) rank, a negative the opposite.

b. Human Development Report Office estimate.

c. Capped at 100%.

d. Heston and Summers 1999.

e. UNESCO 1997

f. Capped at 99.0%.

g. UNICEF 1999a.

h. Data refer to a year or period other than that specified in the column heading, differ from the standard definition or refer to only part of the country.

i. UNICEF 1998b.

j. Human Development Report Office estimate based on national sources.

k. UNESCO 1996.

Source: Column 1. unless otherwise noted, calculated on the basis of data from UN 1998h; column 2: unless otherwise noted, calculated on the basis of data from UN 1998h; column 2: unless otherwise noted, calculated on the basis of data from UN 1998h; column 2: unless otherwise noted, calculated on the basis of data from UN 1998h; column 2: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unless otherwise noted, calculated on the basis of data from UN 1998h; column 3: unl UNESCO 1999b, column 4. unless otherwise noted, calculated on the basis of data from World Bank 1999f, columns 5-9. Human Development Report Office calculations.



	dev	der-related elopment index (GDI)	at (y	pectancy birth ears)		teracy rate (%) 997	ratio (%) 1997		third-level gross enrolment ratio (%)		(1	P per capita PPP\$) 997°	HDI rank minus GDI
HDI rank	Rank	Value	Female	Male	Female	Male	Female	Male	Female	Male	rank <sup>6</sup>		
High human development	~	0.902	80.2	73.7	98.1	98.6	90	88	15,827	27,656			
1 Canada	1	0.928	81.8	76.1	99.0	99.0 °	100 d	96	17,254*	27,806°	0		
2 Norway	2	. 0.927	81.1	75.2	99.0°	99.0°	98	93	20,872 1	28,0951	0		
3 United States	3	0.926	80.1	73.4	99.0°	99.0 €	97	91	23,540	34,639	0		
4 Japan	8	0.917	82.9	76.8	99.0°	99.0 °	83	86	14,625	33,893	-4		
5 Belgium	6	0.918	80.6	73.8	99.01	99.0 °	100 d	100 d	15,249	30,565	-1		
6 Sweden	5	0.919	80.8	76.3	99.0°	99.0°	100 d	95	17,829	21,789	1		
7 Australia	4	0.921	81,1	75.5	99.04	99.0 °	100 d	100 4	16,526	23,944	3		
8 Netherlands	9	0.916	80.7	75.0	99.0	99.0 °	97	100	14,483	27,877	-1		
9 (celand	7	0.918	81.3	76.8	99.01	99.0 <	89	86	19,183 9	25,777 9			
10 United Kingdom	11	0.915	79.8	74.5	99.0 €	99.0 °	100 d	99	15,736	25,917	2 -1		
11 France	10	0.916	82.0	74.2							-1		
12 Switzerland	12	0.909	81.8	74,2 75,4	99.0° 99.0°	99.0 °	94	91	17,176	27,134	1		
13 Finland	13	0.908	80.6	73.4	99.01	99.0 °	76 100 d	83	16,802	33,878	0		
14 Germany	15	0.904	80.2	73.9	99.0			94	15,045	25,522	0		
15 Denmark	14	0.904	78.3	73.0	99.0	99.0	87	89	16,780	25,962	-1		
16 Austria						99.0°	91	87	19,733	27,741	1		
17 Luxembourg	17	0.898	80.2	73.7	99.0°	99.0°	85	86	14,099	30,337	-1		
18 New Zealand	19	0,894	79.9	73.3	99.0°	99.0°	69	69	17,3269	44,9559	-2		
19 Italy	16	0.900	79.7	74.1	99.0°	99.0 °	99	92	13,757	21,177	2		
20 Ireland	18 20	0.894	81.2	75.0	97.8	98.8	83	80	12,634°	28,405°	1		
		0.892	79.2	73.6	99.0	99.0	90	86	11,585 f	29,973 f	0		
21 Spain	21	0.888	81.5	74.5	96.2	98.4	94	89	9,568 °	22,569*	0		
22 Singapore	22	0.883	79.3	74.9	87.0	95.9	71	74	18,947	37,833	0		
23 Israel	23	0.879	79.7	75.7	93.4	97.5	81	79	12,387 °	24,007°	0		
24 Hong Kong, China (SAR)	24	0.875	81.4	75.8	88.4	96.1	67	64	15,180	32,688	0		
25 Brunei Darussalam	25	0.872	78.1	73.4	86.0	93.7	73	71	17,637 49	40,781 49	0		
26 Cyprus	**	29	80,0	75,5	93.5	98.4					Ü		
27 Greece	26	0.861	80,7	75.6	94.9	98.3	79	70	8,0959	20,329 9	41		
28 Portugal	28	0.853	78.8	71.8	88.3	93.7	93	79	8,248 49	17,429 1,9	0		
29 Barbados	27	0.854	78.7	73.7	97.0	98.2	80	88	9,445	19,469	-1		
30 Korea, Rep. of	30	0.845	76.0	68.8	95.5	98,9	84	80 94	9,252 49	14,946 59	1		
31 Bahamas	29	0.849	77.1						8,388	18,708	-1		
32 Malta	32	0.834	79.3	70.5 74.9	96.4	95.1	77	71	13,296 59	20,232 49	1		
33 Slovenia	31	0.842	78.2	70.6	91.7	90.5	77	78	5,733°	20,772 °	-1		
34 Chile	33	0.832	78.3	72.3	99.0 <sup>h</sup>	99.0 h	78	74	9,137 *	14,619°	1		
35 Kuwait	35	0.825	78.2	74.1	94.9 77.5	95.4	76	78	5,853	19,749	0		
36 Czech Republic	34					83.1	59	56	13,481 49	36,544 49	-1		
37 Bahrain	38	0.830 0.813	77.4	70.3	99.0¢	99.0 °	74	74	7,952 f	13,205 f	1		
38 Antigua and Barbuda			75.3	71.1	80.7	89.9	84	79	5,512 49	24,772 49	-2		
39 Argentina	37	0.814	76.0	··		14	46	40	**	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
40 Uruguay	36	0.823	76.8	69.7	96.5	96.6	82	77	4,8351	15,976	0		
41 Qatar			78.0	70.5	97.8	97.0	81	74	6,3051	12,2751	2		
42 Slovakia	41	0.796	75.4	70.0	81.2	79.6	74	69	5,193 49	29,165 49			
43 United Arab Emirates	39	0.811	76.7	69.2	99.0°	99.0	76	74	6,366°	9.532 °	-2		
44 Poland	45	0.790	76.5	73.9	76.8	73.9	72	66	4,544 e g	27,373 4.9	-4		
45 Costa Rica	40	0.800	76.9	68.2	99.0 "	99.0 h	78	77	5,061 *	8,060°	2		
	42	0.795	78.9	74.3	95.1	95.0	65	66	3,643	9,575	1		
edium human development	-	0.658	68.7	64.8	67.3	83.3	60	68					
46 Trinidad and Tobago	44	0.790	76.2	71.5	97.0	98.7			2,220	4,414	-		
47 Hungary	43	0.792	74.9	66.8	99.01	99.0 h	66	67	4,101 °	9,600 €	0		
48 Venezuela	46	0.786	75.7	70.0	91.6	92.5	75 69	73	5,372	9,194	2		
49 Panama	47	0.786	76.4	71.8	90.4	91.7	68	66	5,006 °	12,661 *	0		
50 Mexico	48	0.778	75.5	69.5	87.9	92.3	74 69	72	4,140 49	10,135 % 9	0		
						ar month	us	71	4,594	12,216	0		

Combined first-, second- and

2	Gender-related
	development
	index

index	develo ind (G	r-related opment dex (OI)	Life expe at bi (yea 199	rth rs)	Adult lite (9	6)	combine second third- gross en rat (%	l- and level rolment io	Real GDP (PPR	25)	HDI rank minus GDI
HDI rank	Rank	Value	Female	Male	Female	Male	Female	Male	Female	Male	rank <sup>b</sup>
51 Saint Kitts and Nevis	*1	**	**			**			**	**	
52 Grenada	**	4+	**	**	••	**	14	1+		**	**
53 Dominica	**			**	41	**	14	1+		**	-1
54 Estonia	49	0.772	74.5	63.0	99.0°	99.0°	83	80	4,236°	6,372 °	0
55 Croatia	50	0.769	76.5	68.8	96.4	99.0 h	68	67	3,557 4.9	6,325 <sup>e, g</sup>	0
56 Malaysia	52	0,763	74.3	69.9	81.0	90.2	66	64	5,115 °	11,081 °	-1
57 Colombia	51	0.765	- 74.3	67.3	90.8	91.0	71	70	4,725	8,9451	1
58 Cuba	53	0.762	78.0	74.2	95.9	95 9	73	70	2,013 4	4,181 4	0
	57	0.754	75,1	67.9	79.2	86.9	63	62	4,893 t	13,745°	-3
59 Mauritius 60 Belarus	54	0.761	73.9	62.2	98.5	99.0 h	82	78	3,909 4	5,912 4	1
									·	Ť	
61 Fiji	60	0.749	74.9	70.6	89.4	94.1	79	81	1,897 °	6,014 °	-4
62 Lithuania	55	0.759	75.6	64.3	99.0 h	99.0 h	77	73	3,323	5,221	2
63 Bulgaria	56	0.757	74.7	67.6	97.6	98.8	73	68	3,256 *	4,801 4	2
64 Suriname	11	94	72.7	67.5	91.6	95.4	**		2,794 4.9	7,569 e.g	
65 Libyan Arab Jamahiriya	68	0.732	72.2	68.3	62.9	88.7	92	92	2,373 *.9	10,699 4.9	-9
66 Seychelles		**	8.6	40	44.0	**		14			
67 Thailand	58	0,751	72.0	65.8	92.8	96.7	59	58	5,000	8,382	2
68 Romania	59	0,750	73.9	66.2	96.7	98.9	68	68	3,221 °	5,435 *	2
69 Lebanon	66	0.734	71.7	68.1	78.3	91.2	77	76	2,793 °	9,239*	-4
70 Samoa (Western)	44		73.6	69.3	**		67	65	1,560 °	5,379 °	14
					98.8	99.01	80	74	3,503 °	5,356 °	2
71 Russian Federation	61	0.745	72.8	60.6		92.7	67	78	1,925	7,927	-6
72 Ecuador	70	0.728	72.5	67.3	88.8	94.04	70	70	2,257 *	4,163 °	2
73 Macedonia, TFYR	63	0.742	75.3	70.9	94.0° 99.0°	99.0 %	72	69	3,330	4,664	4
74 Latvia	62	0.743	74.4	62.5						7,007	
75 Saint Vincent and the Grenadines	14	9.0	##	81	**	44		**			
76 Kazakhstan	64	0.738	72.5	62.8	99.0°	99 0 °	79	74	2,804 e	4,358 °	3
77 Philippines	65	0.736	70.2	66.5	94.3	94,8	85	80	2,510	4,513	3
78 Saudi Arabia	78	0.703	73.4	69.9	62.5	81.0	53	58	2,284 °	16,385 °	-9
79 Brazil	67	0.733	71.0	63.1	83.9	84.1	77	82	3,813	9,205	3
80 Peru	71	0.726	70.9	65.9	83.7	93.9	77	80	2,335 "	7,061 °	0
81 Saint Lucia					p4	**	**	**	**		
82 Jamaica	69	0.731	76.8	72.9	89.6	81.2	63	62	2,756 °	4,138°	3
	03		76.1	73.4	u		72	72	1,617 *	6,928 °	
83 Belize	74	0.717	72.0	67.5	91.1	93.8	64	65	1,918	6,009	-1
84 Paraguay			76.8	68.5	**	.,	71	70	1,521 e	2,440 e	
85 Georgia	1/1	84						67	4,681	7,982	1
86 Turkey	73	0.722	71.7	66.5	73.9	92.4	54	67		2,816 °	3
87 Armenia	72	0.726	73.6	67.2	98.8°	98.8°	68	75	1,928 *	7,186 °	1
88 Dominican Republic	75	0.716	73.1	69.0	82.3	82.8	69	63	2,374 *	16,654 4.9	-8
89 Oman	85	0.686	73.3	68.9	55.0	76.9	57	60	2,339 4 9		2
90 Sri Lanka	76	0.712	75.4	70.9	87.6	94.0	67	<b>6</b> 5	1,452	3,545	2
91 Ukraine		4.5	73.7	63.8	*1		80	74	1,691	2,763	**
92 Uzbekistan			70.7	64,3	**	41	74	78	2,019 4,9	3,047 49	**
93 Maldives	77	0.711	63.3	65.7	95.6	95.7	75	74	2,698 °	4,630 °	2
94 Jordan			71.5	68.9	81.8	92.2	1+	14	1,429	5,336	**
95 Iran, Islamic Rep. of	 81	0.696	70.0	68.5	65.8	80.7	68	76	2,453 % 9	9,084 🖭 9	-1
· ·	0,	4.000							1,642 <sup>e, g</sup>	2,586 e, g	**
96 Turkmenistan	AB	44	68.9	61.9	**	**	 71	68	1,798 *	2,720 e	4.
97 Kyrgyzstan	44		71.9	63.3	745	90.8	67	71	2,485°	3,738°	2
98 China	79	0.699	72.0	67.9	74.5	98.7	64	64	1,760°	4,696 °	-1
99 Guyana	83	0.691	67.9	61.1	97.5	98.7 85.0°	68	67	1,501 °	2,711 °	3
100 Albania	80	0.696	75.9	69.9	85.0°	03.0	00	01	1,501	69111	,

Combined first-,

2	Gender-related
	development
	index

index HDI rank	deve ii (	Gender-related development index (GDI) 1997		Life expectancy at birth (years) 1997		Adult literacy rate (%) 1997		ed first-, d- and devel rokment io	Real GDP (PP	HDI rank minus GDI	
HDI rank	Rank	Value	Female	Male	Female	Male	Female	Male	Female	Male	rank b
101 South Africa	84	0.689	58.1	51.5	62.2	047	0.4	62	4.5274	10.2164	
102 Tunisia	87	0.681	70.7	68.4	83,2 55,8	84.7 78.1	94 68	93 72	4,637 ° 2,742 °	10,216° 7,806°	0
103 Azerbaijan	82	0.691	74.1	65.5	96.3°	96.3 °	73	69	1,164 °	1,952 °	-2 4
104 Moldova, Rep. of	86	0.681	71.5	63.5	97.4	99.0 h	71	69	1,221*		1
105 Indonesia	88	0.675	67.0	63.3	79.5	90.6	61	68	2,359 *	1,805 ° 4,626 °	0
							01	QQ	2,335		U
106 Cape Verde	90	0.667	71.3	65.5	62.5	82.1	76	79	1,985 °	4,152 *	-1
107 El Salvador	89	0.667	72.5	66.5	74.2	80.1	63	64	1,688 °	4,120°	1
108 Tajikistan	92	0.662	70.2	64.2	98.3	99.0 h	65	73	850 5 9	1,404 5 9	-1
109 Algeria	93	0.642	70.3	67.5	47.7	72.7	64	71	1,896 *	6,962 e	-1
110 Viet Nam	91	0.662	69.6	64.9	89.0	95.1	59	64	1,385 *	1,882 *	2
111 Syrian Arab Republic	95	0.640	71.2	66.7	56.5	86.5	56	63	1 207 1		-1
112 Bolivia	94	0.641	63.2	59.8	76.8	90,7	64	75	1,397 *	5,064 e	
113 Swaziland	96	0.636	62.5	57.9	76.3				1,5891	4,1871	1
114 Honduras	98	0.631				78.9	71	74	2,082 °	4,720°	0
115 Namibia	97		72.3	67.5	70.2	71.1	59	57	1,130 e	3,293 °	-1
	37	0.633	53.0	51.8	78.5	81.2	84	80	3,439 *	6,594 *	1
116 Vanuatu	nė	11	69.5	65.5	11	64	44	49	40	ng	
117 Guatemala	101	0.608	67.2	61.4	58.9	74.2	43	51	1,861	6,298	-2
118 Solomon Islands	16	01	73.9	69.7		19	44	48	1,886 °	2,710*	4
119 Mongolia	99	0.616	67.3	64.4	78.6	89.3	61	49	-		1
120 Egypt	103	0.603	67.9	64.7	40.5	64.7			1,057	1,562 *	
			07.3	04,7	40.5	04.7	66	77	1,800	4,264	-2
121 Nicaragua	100	0.609	70.6	65.8	63.4	63.3	65	61	1,169 4 8	2,835 4.9	2
122 Botswana	102	0.606	48.4	46.2	76.9	71.7	72	69	5,990 *	9,460 °	1
123 São Tomé and Principe		**	44	**	46		66	81			
124 Gabon	46	14	53.8	51.1	56.8	76.1	0.0	10	5,678*	9,4684	**
125 Iraq	9.0	49	63.9	60.9	85	Ib.	44	57	970 9	5,347 49	
126 Morocco	100	AFFE	COL								
127 Lesotho	106	0.565	68.5	64.8	32.7	59,3	42	55	1,909 °	4,709*	-2
	105	0.570	57.3	54.7	92.5	71.5	62	53	1,145*	2,598 *	0
128 Myanmar	104	0.576	61.8	58.5	78.8	88.5	54	55	882 4 6	1,51949	2
129 Papua New Guinea	107	0.564	58.7	57.2	64.7	82.0	33	40	1,915 40	3,348 49	0
130 Zimbabwe	108	0.555	44.7	43.6	87.6	94.3	66	71	1,764 *	2,945 €	0
131 Equatorial Guinea	fe	PE	51,6	48.4	70.1	90.5			1.000.4		
I32 India	112	0.525	62.9	62.3	39.4	66.7	47		1,066 4 9	2,589 4.9	**
33 Ghana	109	0.540	61.8	58.3			47	62	902*	2,389 °	-3
34 Cameroon	110	0.527	56.0		56.5	76.5	37	47	1,428*	1,854*	1
35 Congo	111			53.4	64.6	79.0	39	48	1,191 *	2,598 *	1
	111	0.527	50.8	46.3	69.8	84.6	62	76	1,179 °	2,082 *	1
36 Kenya	113	0.517	53.0	51.1	71.8	86.9	49	50	1,013	1,366	0
37 Cambodia	94	46	55.0	51.5	ńą		54	68			
38 Pakistan	116	0.472	65.1	62.9	25.4	55.2	28	56	1,163 °	1,426 4	**
39 Comoros	114	0.500	60.2	57.4	48.2	62.9	35		701 °	2,363 *	-2
	, .							42	1,124 °	1,936 °	1
w human development	· **	0,404	51,5	49.7 · ·	35.8	57.2	33	44	691	1,277	7
40 Lao People's Dem. Rep.	115	0.483	54.5	52.0	46.8	71.1	48	62	1,033 °	1,563 °	1
41 Congo, Dem. Rep. of the	13	6-4	52.3	49.2	42		31	47			
42 Sudan	117	0.453	56.4	53.6	41.3	65.4	31	37	648ª	1,117*	
43 Togo	118	0.450	50.1	47.6	38.3	68.7	47		741°	2,375*	0
14 Nepal	121	0.441	57.1	57.6	20.7	55.7		75	998 °	1,991 *	0
45 Bhutan	119	0.444	62.0	59.5			49	69	763 t	1,409*	-2
					30.3	58.1	10	14	985 4 9	1,940 9	1
46 Nigeria	120	0.442	51.5	48.7	50.8	68.5	48	61	553 °	1,293 °	1
47 Madagascar	*1	10	59.0	56.0	96	10	39	39	712°	1,151 *	
48 Yemen	128	0.408	58.4	57.4	21.0	64.2	27	70	579*		.6
19 Mauritania	122	0.438	55.1	51,9	27.8	49.4	36			1,038*	-6
50 Bangladesh	123	0.428	58.2	58.1	27.4	49.9	30	45	1,283 °	2,185 °	1
					B. F. I. T.	73.3	30	40	767 °	1,320°	1

Combined first-,

2 Gender-related development index

	Gender-related development index (GDI) 1997		<b>at bi</b> (yea	Life expectancy at birth (years) 1997		Adult literacy rate (%) 1997		third-level gross enrolment ratio (%) 1997		Real GDP per capita (PPP\$) 1997°	
HDI rank	Rank	Value	Female	Male	Female	Male	Female	Male	Female	Male	GDI rank <sup>b</sup>
151 Zambia	125	0.425	40.6	39.5	67.5	83,3	46	53	753	1,172	0
152 Haiti	124	0.426	56.2	51.4	43.4	48.3	24	25	928 e	1,624 °	2
153 Senegal	127	0.417	54.2	50.5	24.8	44.5	31	40	1,253 ª	2,209*	0
154 Côte d'Ivoire	130	0.404	47.3	46.2	33.7	51.0	32	48	991 e	2,656 *	-2
155 Benin	129	0.405	55.2	51.7	20.9	47.8	30	54	1,048 *	1,499 °	0
156 Tanzania, U. Rep. of	126	0.418	49.1	46.8	62.0	81.7	32	33	549	612	4
157 Djibouti	120	ы	52.0	48.7	35.0	62.2	17	24			41
158 Uganda	131	0.397	40.4	38.9	53.0	75.2	36	44	944 e	1,378 °	0
159 Malawi	132	0.390	39.6	38.9	43.4	72.8	70	79	600 °	823 °	0
160 Angola	100	0.530	48.1	44.9	9297	12.0	25	29	1,127*	1,741 °	**
161 Guinea	134	0.381	47.0	46.0	23.9	52.0	19	36	1,530 *	2,226 °	-1
162 Chad	135	0,378	48.7	45.7	37.1	64.0	19	38	730 *	1,216*	-1
163 Gambia	133	0.376	48.6	45.4	26.4	40.1	35	48	1,115*	1,834 *	2
164 Rwanda		T	41,7	39.4	55.6	70.7	42	44	*		**
165 Central African Republic	137	0.365	46.9	42.9	30.1	56.0	20	33	1,032	1,645	-1
· ·							20	31	583 *	902 "	1
166 Mali	136	0.367	54.6	52.0	28.3	43.1	24	30	568	1,076	
167 Eritrea	120	0.210	52.4	49.3	10.3	40.7	24	43	580 49	1,151 %9	-1
168 Guinea-Bissau	139	0,318	46.5	43.5	18.3	49.7	20	43 29	612 *	872 *	1
169 Mozambique	138	0,326	46.6	43.9	25.0	56.7 53.8	20	25	527 *	738 °	0
170 Burundi	140	0.317	43.8	41.0	36.1						_
171 Burkina Faso	141	0,291	45.2	43.6	11.2	30.4	15	24	807 °	1,214*	0
172 Ethiopia	142	0.287	44.3	42.4	29.2	41.5	18	31	349 *	670 °	0
173 Niger	143	0.286	50.1	46.9	7.2	21.7	11	19	636 °	1,069 °	0
174 Sierra Leone	he	40	38.7	35.8	20.0	47.5	**	41	246 *	581 °	41
All developing countries	_	0.630	66.1	63.0	62 9	80.0	55	64	2,088	4,374	_
Least developed countries	-	0.415	52.6	50.8	38.1	58.8	32	43	731	1,258	_
Sub-Saharan Africa	_	0.454	50.3	47.5	49.6	65.9	39	49	1,063	2,004	-
Arab States	***	0.609	67.1	64.2	46.4	70.6	54	64	1,730	6,449	
East Asia	_	0.709	72.2	68.0	75.4	91.2	67	72	2,757	4,398	-
East Asia (excluding China)	AA	0.843	76.2	69.5	94.0	98.2	81	88	8,824	19,641	-
South East Asia and the Pacific	w	0.692	67.9	63.9	84.4	92.2	63	66	2,605	4,794	
South Asia	_	0.525	63.1	62.3	38.6	65.0	44	60	950	2,606	-
South Asia (excluding india)	_	0.524	63.7	62.3	36.2	60.0	39	55	1,073	3,171	
Latin America and the Caribbean	_	0.749	73.0	66.5	86.2	88.3	71	73	3,837	9,951	-
Eastern Europe and the CIS		0.752	73.7	63.8	98.4	98.8	77	74	3,314	5,226	-
Industrialized countries		0.915	80.9	74.5	98.6	98.9	93	90	17,660	30,050	-
World	_	0.700	68.9	64.7	71.1	84.3	60	67	4,523	8,103	-

Combined first-,

second- and

a. Data refer to the latest available year.

b. The HDI ranks used in this column are those recalculated for the universe of 143 countries. A positive figure indicates that the GDI rank is better than the HDI rank, a negative the opposite.

c. Human Development Report Office estimate.

d. Capped at 100%.

e. No wage data available. An estimate of 75%, the mean for all countries with wage data, was used for the ratio of the female non-agricultural wage to the male non-agricultural wage.

f. The manufacturing wage was used for the Czech Republic, Greece, Ireland and Norway.

g. Real GDP per capita (PPP\$) data from Heston and Summers 1999

h. Capped at 99.0%.

i. Wage data based on Psacharopoulos and Tzannatos 1992.

j. Real GDP per capita (PPP\$) based on Human Development Report Office estimate.

Source Columns 1 and 2 Human Development Report Office calculations; columns 3 and 4. calculated on the basis of data from UN 1998h; columns 5 and 6: unless otherwise noted, calculated on the basis of data from UN 1998h; columns 7 and 8: UNESCO 1999b, columns 9 and 10: unless otherwise noted, calculated based on estimates from the following: for real GDP per capita (PPP\$), World Bank 1999f, for share of economically active population and for female non-agricultural wages as a percentage of male non-agricultural wages, ILO, Yearbook of Labour Statistics 1996 and Yearbook of Labour Statistics 1998; for female and male populations, UN 1998h; column 11: Human Development Report Office calculations.



	empov	nder verment asure EM)	Seats in parliament held by women	Female professional and technical workers	Women's real GDP per capita	
IDI rank	Rank	Value	(as % of total) *	(as % of total) b	(as % of total) b	(PPP\$) <sup>b</sup>
High human development		40	17.3	* 6b	*1	15,827
1 Canada	4	0.742	23.3	42.2	51.1	17,254 4
2 Norway	1	0.810	36.4	30.6	58.5	20,872 ₫
3 United States	8	0.708	12.5	44.3	53.1	23,540
4 Japan	38	0.494	8.9	9.3	44.1	14,625
5 Belgium	17	0.610	15.8	18.8	50.5	15,249
	2	0.777	42.7	27.9	63.7	17,829
6 Sweden	9	0.707	25.9	43.3	25.5	16,526
7 Australia		0.702	31.6	16.8	44.8	14,483
8 Netherlands	10		25.4	23.1	53.2	19,183 *
9 Iceland	7	0.721	12.3	33.0	43.7	15,736
10 United Kingdom	16	0.614	12,3			
11 France	36	0.499	9.1	9.4 f	41.4 (	17,176
12 Switzerland	14	0.655	20.3	29.1	23.0	16,802
13 Finland	6	0.737	33.5	26.6	62.5	15,045
14 Germany	5	0.740	29.8	26.6	49.0	16,780
15 Denmark	3	0.765	37.4	20.0	62.8	19,733
	12	0.684	24.7	21.8	50.4	14,099
16 Austria	12			8.6 f	37.7 1	17,326 *
17 Luxembourg	15	0.624	20.0			13,757
18 New Zealand	11	0.700	29.2	24.2	49.6	12,634
19 Italy	26	0.523	10.0	53.8	17.8	
20 Ireland	20	0.556	13.7	17.3	48.0	11,585 4
21 Spain	22	0.555	19.9	12.0	48.1	9,568
22 Singapore	32	0.512	4.8	34.3	16.1	18,947
23 Israel	37	0.496	7.5	19.2	53.8	12,387
24 Hong Kong, China (SAR)	20	**	н	91	bil .	15,180
25 Brunei Darussalam	gh	21	14	N	86	17,637 se
						8,095 °
26 Cyprus	68	0.385	5,4	10.2 f	40.8 1	8,248 <sup>4, e</sup>
27 Greece	66	0.404	6.3	12.1	44.2	
28 Portugal	19	0.571	13.0	36.6	52.4	9,445
29 Barbados	Th.	**	10	nā-	47	9,252 54
30 Korea, Rep. of	78	0.336	3.7	4.2	45.0	<b>8</b> ,388
31 Bahamas	13	0.658	19.6	34.8	51.4	13,296 👊
32 Malta	44	mh.	9.2	**	60	5,733 (
33 Slovenia	42	0,486	7.8	28.3	53.1	9,137 4
34 Chile	54	0.449	9.0	18.5	51.6	5,853 9
35 Kuwait	72	0.355	0.0	5.2 f	36.8 f	13,481 48
36 Czech Republic	27	0.521	13.9	23.2	54.1	7,952 d
37 Bahrain	40	**	44.4	ы	63	5,512 ce
38 Antigua and Barbuda	49	il p	11.1	An	64	4.025.0
39 Argentina		**	22.8	**	**	4,835 9
40 Uruguay	56	0.441	6.9	28.2	63.7	6,305 g
41 Qatar -	09	**	på.	**	05	5,193 <sup>c, e</sup>
42 Slovakia	34	0.509	12.7	30.7	59.7	6,366 (
43 United Arab Emirates	96	0.239	0.0	1.6 f	25.1 f	4,544 4
44 Poland	35	0.504	12.9	33,5	61.2	5,061 5
45 Costa Rica	23	0.550	19.3	26.6	47.8	3,643
Medium human development		14	10.0	10	46	2,220
46 Trinidad and Tobago	24	0,540	19.4			4,101 °
47 Hungary	48	0.458		23.3	53.3	5,372
48 Venezuela	43		8.3	32.8	60.9	5,006 °
49 Panama	47	0.484	12.2	22.9	57.1	
		0.467	9.7	27.6 h	49.2 h	4,140 ° =
50 Mexico	33	0.511	16.9	19.8	45.2	4,594

#### 3 Gender empowerment measure

	empov me	nder werment asure (EM)	Seats in parliament held	Female administrators and	Female professional and technical	Women's real GDP
HDI rank	Rank	Value	by women (as % of total) <sup>a</sup>	managers (as % of total) b	workers (as % of total) b	per capita (PPP\$) b
51 Saint Kitts and Nevis	26		13.3			
52 Grenada	90	25	13.3		**	10
53 Dominica	p+	PI	9.4	PP		
54 Estonia	46	0.468	10.9	36.5	66.8	4,236 °
55 Croatia	99	19	7.2	**	40	3,557 <sup>GB</sup>
	52	0.451	10.3	19.2	43.2	5,115 °
56 Malaysia	31	0.515	12.2	38.8	45.6	
57 Colombia						4,725 9
58 Cuba	21	0.556	27.6	18.5 (	47.8 f	2,013 51
59 Mauntius	61	0.427	7.6	22.6	38.4	4,893 °
60 Belarus	8-6	86	åн	do	ža.	3,909 °
61 Fiji	79	0.327	5.8	- 48.3	10.5	1,897 5
62 Lithuania	28	0.517	17.5	35.2	67.5	3,323
63 Bulgaria	49	0.457	10.8	28.9 <sup>‡</sup>	57.0 1	3,256 °
64 Suriname	60	0.428	15.7	13.3	69.0	2,794 48
65 Libyan Arab Jamahiriya	00	Į4	84	44	ab	2,373 50
			23.5			
66 Seychelles 67 Thailand	C.A.	0.407	6.6	20.4	54.5	5,000
	64			28.1	56.4	3,221 °
68 Romania	67	0.400	5.6			
69 Lebanon	91	10	2.3	10	10	2,793 °
70 Samoa (Western)	tel	611	4.1	**	10	1,560 5
71 Russian Federation		0.0	7.5	14	16	3,503 °
72 Ecuador	29	0.516	17.4	27.5	46.6	1,925 9
73 Macedonia, TFYR	84	0.0	7.5	16	w	2,257 °
74 Latvia	30	0.515	17.0	37.5	66,4	3,330
75 Saint Vincent and the Grenadines	418	96	4.8	**	4*	68
76 Variation			44.4			2,804 °
76 Kazakhstan	46	0.400	11.4 12.9	34.8	65.1	2,510
77 Philippines	45	0.480				2,284 °
78 Saudi Arabia	ed The	0.262		17.3 f	 63.3	3,813
79 Brazil	70	0.367	5.9		39.4	2,335 <sup>c</sup>
80 Peru	63	0.421	10.8	20.0	22.4	2,333 -
81 Saint Lucia	43-	48	14.3	41	hò	
82 Jamaica	*4	44	16.3	44	46	2,756 °
83 Belize	39	0.492	13.5	36.6	38.8	1,617 °
84 Paraguay	65	0.405	8.0	22.6	54.1	1,918
85 Georgia	73	0.355	6.9	18.3 <sup>†</sup>	41.8 1	1,521 °
			2.4	8.6	33.0	4,681
86 Turkey	85	0.280	2.4			1,928 °
87 Armenia	**	0.000	6.3	44.8	49.9	2,374 °
88 Dominican Republic	25	0.528	14.5			2,339 54
89 Oman	45	**		17 C	20.7	
90 Sri Lanka	80	0.321	5.3	17.6	30.7	1,452
91 Ukraine	49	b-a	7.9	eş	49	1,691
92 Uzbekistan	41	ąa.	6.0	04	66	2,019 98
93 Maldives	76	0.342	6.3	14.0 <sup>f</sup>	34.6 1	2,698 °
94 Jordan	98	0.220	2.5	4.6	28.7	1,429
95 Iran, Islamic Rep. of	88	0.264	4.9	3.5 f	32.6 f	2,453 5.6
						1,642 50
96 Turkmenistan	48	**	18.0	**	**	1,798 5
97 Kyrgyzstan	00	**	4.8	44.6 1	4E 1 f	
98 China	40	0.491	21.8	11.6 *	45.1 f	2,485 °
99 Guyana	57	0.434	15.6	12.8 <sup>f</sup>	`47.5 <sup>‡</sup>	1,760 °
100 Albania	**	in by	шф	4 b	hè	1,501 °

#### 3 Gender empowerment measure

	empov me:	nder verment asure EM)	Seats in parliament held by women	Female administrators and managers	Female professional and technical workers	Women's real GDP per capita
HDI rank 1997	Rank	Value	(as % of total) a	(as % of total) b	(as % of total) b	(PPP\$) b
101 South Africa 102 Tunisıa 103 Azerbaljan 104 Moldova, Rep. of	18 75 	0.582 0.353 	28.4 7.4 12.0 8.9	17.4 h 12.7 l	46.7 h 35.6 l	4,637 ° 2,742 ° 1,164 ° 1,221 °
105 Indonesia 106 Cape Verde 107 El Salvador 108 Tajikistan 109 Algeria 110 Viet Nam	71 62 41  92	0.362 0.426 0.491  0.245	11.4 11.1 16.7 2.8 3.8 26.2	6.6 f 23.3 f 25.3	40.8 <sup>†</sup> 48.4 <sup>†</sup> 44.5 27.6 <sup>†</sup>	2,359 ° 1,985 ° 1,688 ° 850 ° ° 1,896 °
111 Syrian Arab Republic 112 Bolivia 113 Swaziłand 114 Honduras 115 Namibia	81  69 53	0.317  0.378 0.450 	10.4  6.3 9.4 17.3	2.9  24.1 39.2	37.0  61.2 56.3	1,397 ° 1,589 9 2,082 ° 1,130 ° 3,439 °
116 Vanuatu 117 Guatemala 118 Solomon Islands 119 Mongolia 120 Egypt	 44   86	0.482   0.275	0.0 12.5 2.0 7.9 2.0	32.4 *	45.2 1 28.4	1,861 ( 1,886 ( 1,057 ( 1,800 ( 1,169 < °
121 Nicaragua 122 Botswana 123 São Tomé and Principe 124 Gabon 125 Iraq	 51  	0.454  	10.8 8.5 9.1 9.6 6.4	25.7	52.8	5,990 ° 5,678 ° 970 ° °
126 Morocco 127 Leade 128 Myanmar 129 Papua New Guinea 130 Zimbabwe	84 55  91 58	0.301 0.449  0.255 0.430	0.7 10.6  1.8 14.7	25.6 f 33.4 f 11.6 f . 15.4 f	31.3 h 56.6 f 29.5 f 40.0 f	1,909 ° 1,145 ° 882 ° ° 1,915 ° ° 1,764 °
131 Equatorial Guinea 132 India 133 Ghana 134 Cameroon 135 Congo	89 95  87	0.257 0.240  0.265	8.8 8.3 9.0 5.6 12.0	1.6 <sup>f</sup> 2.3 <sup>f</sup> 10.1 <sup>f</sup>	26.8 <sup>f</sup> 20.5 <sup>f</sup> 24.4 <sup>f</sup>	1,066 ° 902 ° 1,428 ° 1,191 ° 1,179 °
136 Kenya 137 Cambodia 138 Pakistan 139 Comoros	  101 	 0.176 	3.6 8.2 2.0 0.0	4.3	21.0	1,013 1,163 ° 701 ° 1,124 °
Low human development	-	•	8.9	94	6%	691
140 Lao People's Dem. Rep. 141 Congo, Dem. Rep. of the 142 Sudan 143 Togo 144 Nepal 145 Bhutan	 97 100 	 0.227 0.185 	21.2 5.3 1.2 4.5 2.0	2.4 f 7.9 f	28.8 <sup>†</sup> 21.2 <sup>f</sup>	1,033 ° 648 ° 741 ° 998 ° 763 ° 985 ° °
146 Nigeria 147 Madagascar 148 Yemen 149 Mauritania 150 Bangladesh	   99 83	   0.197 0 304	8.0 0.7 2.2 9.1	7.7 f 4.9	20.7 1 34.7	553 ° 712 ° 579 ° 1,283 ° 767 °

#### 3 Gender empowerment measure

	empov me	nder verment asure EM)	Seats in parliament held by women	Fernale administrators and managers	Female professional and technical workers	Women's real GDP per capita
HDI rank	Rank	Value	(as % of total) a	(as % of total) b	(as % of total) b	(PPP\$) b
era w Lt.	on.	0.210	10.3	6.1 f	31.9 <sup>f</sup>	753
151 Zambia	82	0.310	10.3			928 °
152 Haiti	θE	44	40	èя	4.0	1,253 4
153 Senegal 154 Côte d'ivoire	be	4.6	8.0	6.0	**	991 5
155 Benin	40	p4	7.2	es b1	P4 P5	1,048 °
	4.0	44		64	#4	
156 Tanzania, U. Rep. of	47	+4	17.5	94	11	549
157 Dibouti	ès	**	0.0	ψA	"	044.5
158 Uganda	**		18.1	An f	247 f	944 5
159 Malawi	90	0.256	5.7	4.8 <sup>f</sup>	34.7 <sup>†</sup>	600 °
160 Angola	61	**	15.5	ěά	44	1,127 5
161 Guinea	**	44	8.8	99	An	1,530 °
162 Chad	**	**	. 2.4	**	84	730 °
163 Gambia	93	0.243	2.0	15.5 h	23.7 h	1,115 °
164 Rwanda	50	¥I	17.1	61	90	av
165 Central African Republic	94	0.242	6.4	9.0 f	18.9 f	1,032
166 Malı	74	0.353	12.2	19.7 <sup>†</sup>	19.0 f	583 '
167 Eritrea	50	0.456	21.0	16.8	29.5	568
168 Guinea-Bissau	**	91	10.0	91	49	580 Ce
169 Mozambique	59	0.428	25.2	11.3 f	20.4 <sup>f</sup>	612 °
170 Burundi		**	6.0	with	84	527 °
171 Burkina Faso	77	0.337	10.5	13.5 <sup>f</sup>	25.8 f	807 °
171 Ethiopia			2.0		14	349 °
	102	0.120	1.2	8.3	8.0	636 °
173 Niger 174 Sierra Leone			I v≤	40	14	246 '
174 Sietra Leone	01	40	49	**		
Ali devel ping countries	-	**	10.0	**	14	2,008
.eas developed countries	+	44	8.7	**	×e.	731
Sub saharah Africa	-	44	11.2	**	**	1,063
Arab S a is	-	**	3.7	**		1,730
Fast Asia	-		4.6	**	"	2,757
tast As a (excluding China)	-		4.5	**		8,824
South Fast Asia and the Pacific	-	**	12.3	**	» f	2,605
South As a	-	**	6.0	"	**	950
South As a (excluding India)		**	5.2	"	*	1,073
Latin America and the Caribbean	-		15.3	11	**	3,837
Eastern Filtrope and the CIS	-	**	9.1	**	14	3,314 17,660
ndustrialized countries	**		19.0	**	**	4,523
World	-	**	12.0	**	**	4,323

a. Data are as of 5 February 1999.

b. Data refer to latest available year.

c. No wage data available. An estimate of 75%, the mean for all countries with wage data available, was used for the ratio of the female non-agricultural wage to the male non-agricultural wage.

d. The manufacturing wage was used for the Czech Republic, Greece, Ireland and Norway.

e. Real GDP per capita (PPP\$) from Heston and Summers 1999.

f. Calculated on the basis of data from UN 1994 and ILO, Yearbook of Labour Statistics 1993 and Yearbook of Labour Statistics 1994.

g. Wage data based on Psacharopoulos and Tzannatos 1992.

h. Calculated on the basis of data from UN 1994 and ILO, Yearbook of Labour Statistics 1994 and Yearbook of Labour Statistics 1995.

i. Real GDP per capita (PPP\$) based on Human Development Report Office estimate.

j. Calculated on the basis of data from UN 1995 and ILO, Yearbook of Labour Statistics 1997.

Source Columns 1 and 2. Human Development Report Office calculations, column 3: IPU 1999a; columns 4 and 5: unless otherwise noted, ILO, Yearbook of Labour Statistics 1998; column 6: unless otherwise noted, calculated based on estimates from the following for rear GDP per capita (PPP\$), World Bank 1999f; for share of economically active population, ILO, Yearbook of Labour Statistics 1998; for female non-agricultural Wages as a percentage of male non-agricultural wages, ILO, Yearbook of Labour Statistics 1998; for female and male populations, UN 1998h.



i developing	Hu	iman	People not expected to			Population		Under- weight	Real	GDP per o	apita	pove	rty line (%)
	in (H	verty idex PI-1) 997 Value	survive to age 40	Adult illiteracy rate (%)	To safe water (%)	To health services (%) 1981-	To sani- tation (%) 1990-	children under age five (%) 1990-	Poorest 20% 1980-	Richest 20% 1980-	Richest 20% to poorest 20% 1980-	\$1 a day (1985 PPP\$) 1989-	National poverty line 1989-
HDI rank	Rank	(%)	1997	1997	1997 a	1992°	1997 ª	1997 *	1994 <sup>a</sup>	1994 3	1994 <sup>a</sup>	19943	1994 a
			4.7	4.7	14		14	3					
High human development	-	3.0			0 p				4,934	47,311	9.6		
22 Singapore	80	10	2.3	8.6 7.6		0	44	69	5,821	50,666	8.7		
24 Hong Kong, China (SAR)	8.0	19	3.2	9.9	**	4	#1	61					43
25 Brunei Darussalam 26 Cyprus	E0	26	3.2	4.1	0	0	3	ae .	14	41			
29 Barbados	1	2.6	3.2	2.4	0	0	0	5 h		44			
			4.7	2.8	7	0	0						,,
30 Korea, Rep. of 31 Bahamas	80	70	5.8	4.2	6	0	18	11	10	60	44		
34 Chile	6	4.8	4.5	4.8	9	5	н	1	1,558	27,145	17.4	15.0	
35 Kuwait		21	2.9	19.6	**	0	- 11	6 b	13	ы	4-		
37 Bahrain	10	9.8	4.7	13.8	6	0	3	9	**			4	
38 Antigua and Barbuda	**	p4	64	40		0	4	10 b		20	97	p.s.	12.0
39 Argentina	20	1.5	5.6	3.5	29	45	32	40	44	44	42	44	26.0
40 Uruguay	3	4.0	5.1	2.5	5 b	0 b, c	**	5	64	49	49	44	å+
41 Qatar	**		4.9	20.0	179	0	3	6	**		0		
43 United Arab Emirates	27	17.7	3.1	25.2	3	10	8	14	94	**	40		**
45 Costa Rica	4	4.1	4.0	4.9	4	3	16	2	1,136	14,399	12.7	18.9	11.0
Medium human development	to a time of	25.3	11.9	26.2	26		57	. 30	, 10	46	**	7	
46 Trinidad and Tobago	2	3,5	4.1	2.2	3	1	21	7 b	60	0.2	8-0	60	21.0
48 Venezuela	16	12.4	6.5	8.0	21	_ d	42	5	1,505	24,411	16.2	11.8	31.0
49 Panama	8	9.0	6.4	8.9	7	18	17	7	589	17,611	29.9	25.6	240
50 Mexico	13	10.6	8.3	9.9	15	9	28	14 b	1,437	19,383	13.5	14.9	34.0 15.0
51 Saint Kitts and Nevis	80	10	Th.	93	0	U	0	94	**	4.0	71	**	
52 Grenada	10	**	***	**	0.0	de	44		60	9.0		17	20.0
53 Dominica	93	**	**	4.4.75	4	0	20	5 b	4.000	22.447	44.73	0.0	33.0
56 Malaysia	18	14.2	4.9	14.3	22	12	6	19	1,923	22,447	11.7 15.5	5.6 7.4	16.0 19.0
57 Colombia 58 Cuba	12 5	10.5 4.7	10.1 4.5	9.1 4.1	15 7	13 0	15 34	8 9	1,042	16,154			13.0
									÷e	40	14	64	
59 Mauritius	15	12.1	4.9	17.0	2	1	0	16	ψE	**		4.6	11.0
61 Fiji	7	8.6	5.0	8.2	23	j ,	8	8	**	**			
64 Suriname 65 Libyan Arab Jamahiriya	22	16.4	7.4 6.4	6.5 23.5	3	9	2	5	**	44	1.0	**	,,
66 Seychelles						1		6 b		**	**	10	н
		10.7	40.5		0	•	86		4 220				13.0
67 Thailand 69 Lebanon	29 14	18.7 11.3	10.5 7.5	5.3 15.6	19	41 5	4 37	19	1,778	16,732	9.4	0.1	
70 Samoa (Western)			7.5 5.5		6 32	0		3	10.0	9.6	**	**	41
72 Ecuador	25	16.8	11.1	9.3	32	20	24	17 b	1,188	11,572	9.7	30.4	35.0
75 Saint Vincent and the Grenadines	44	1010	44	44	11	20	2	16	1,100	11,572	1707		17.0
	20	16.3				d						27.5 8	
77 Philippines 78 Saudi Arabia			9.2 5.9	5.4 26.6	16 5 b	2	25 14	28	842	6,190	7.4		
79 Brazil	19	15.8	11.5	16.0	24	Z d	30	6	578	18,563	32.1	28.7	17.0
80 Peru	23	16.6	11.6	11.3	33	_ d	28	8	813	8,366	10.3	49.4	32.0
81 Saint Lucia	40	44	99	44	15	0			-		ы	40	25.0
82 Jamaica	17	13.6	5.1	14.5	14	d	11	10	922	7,553	8.2	4.7	32.0
83 Belize	41	1320	6.1	1953	17	5	43	6	322	1,433	0.2	****	35.0
84 Paraguay	21	16.4	8.7	7.6	40	ď	59	4	44		20	41	22.0
86 Turkey	24	16.7	9.6	16.8	51	0	20	10	99	**	**		44
88 Dominican Republic	26	17.7	9.0	17.4	35	_ 6	22	6	775	10,277	13.3	19.9	21.0
89 Oman	39	23.7	6.4	32.9	15	11	22	23	24	14	44	14	**
												4.0	22.0
90 Sri Lanka	33	20.4	5.3	9.3	43	10	37	34	1.348	2.954	4.4	9.0	
90 Sri Lanka 93 Maldives	33 43	20.4 25.4	5.3 13.5	9.3 4.3	43 40	25	3/ 56	34 43	1,348	5,954	4.4	9.0	-14

Population

below income

4	Human poverty in developing
	countries

4 Human poverty in developing countries	Han	man	People not		W	Population		Under-	Real	GDP per (	capita	below	ulation v income erty line (%)
	pov inc (Hi	verty dex PI-1)	survive to age 40 (as % of total	Adult illiteracy rate	To safe water (%)	To health services (%)	To sani- tation (%)	weight children under age five (%)	Poorest 20%	Richest 20%	Richest 20% to poorest 20%	\$1 a day (1985 PPP\$)	National poverty line
HDI rank	Rank	Value (%)	population) 1997	(%) 1997	1990- 1997ª	1981- 1992*	1990- 1997°	1990- 1997*	1980- 1994*	1980- 1994°	1980- 1994 <sup>a</sup>	1989- 1994°	1989- 1994 a
98 China	30	19.0	7.9	17.1	33	d	76	16	722	5,114	7.1	29.4	11.0
99 Guyana	11	10.2	13.8	1.9	9	4	12	12	q-d		100	**	43.0
101 South Africa	31	19.1	23.4	16.0	13	_ d	13	9	516	9,897	19.2	23.7	est
102 Tunisia	38	23.1	7.8	33.0	2	10	20	9	1,460	11,459	7.8	3.9	14.0
105 Indonesia	46	27.7	12.8	15.0	25	57	41	34	1,422	6,654	4.7	14.5	8.0
106 Cape Verde	40	24.7	10.4	29.0	49	18	76	14	49		44		44.0
107 El Salvador	35	20.6	10.9	23.0	34	d	10	11	19	41	46	**	38.0
109 Algeria	52	28.8	9.1	39.7	22	d	9	13	1,922	12,839	6.7	1.66	41
110 Viet Nam	51	28.7	11.6	8.1	57	_ d	79	41	406	2,288	5.6	**	51.0
111 Syrian Arab Republic	32	20.1	8.5	28.4	14	1	33	13	40	4.0	40	0.0	4+
			10.4	16.4	37	d	42	16	703	6,049	8.6	7.1	
112 Bolivia	36 45	21.1 27.6	18.4 20.8	16.4 22.5	50	45	41	10 6		0,043	0.0	7.1	
113 Swaziland	41	24.8	11.5	29.3	24	38	26	18	399	6,027	15.1	46.5	53.0
114 Honduras	42	25.0	30.0	20.2	17	d	38	26		44	44	**	
115 Namibia 116 Vanuatu			10.0		23	20	72	20 b	**	**	10	41-	11
116 Valluatu	**	në.		**								53.3	58.0
117 Guatemala	50	28.3	15.6	33.4	23	40	17	27 24 h	357	10,710	30.0		
118 Solomon Islands	9-0	60	5.8	44	39 p	20		21 b	48	**	lin-	64	36.0
119 Mongolia	28	18.2	11.2	16.0	60	0	14	10	1 (52)	7 800	4.7	7.6	
120 Egypt	57	33.0	10.3	47.3	13	1	12	15	1,653	7,809	13.1	43.8	50.0
121 Nicaragua	48	28.1	12.4	36.6	38	- "	65	12	479	6,293	12:1		50.0
122 Botswana	44	27.5	35.0	25.6	10	14	45	17	86	94	66	34.7 <sup>b</sup>	11
123 São Tomé and Principe	44	**	ls.	711	18	12	65	16	ek	ps	**		46.0
124 Gabon	44	**	30.6	33,8	33	13	44	11	44	110	9.00	ee	41
125 Iraq	4.6	14	17.4	94.	19	2	25	23			**	4.4	42.0
126 Morocco	67	39.2	11.8	54.1	35	38	42	9	1,079	7,570	7.0	1.1	13.0
127 Lesotho	37	23.0	25.1	17.7	38	20	62	16	137	2,945	21.5	50.4 b	26.0
128 Myanmar	55	32.3	18.1	16.4	40	52	57	43	**		10	80	62
129 Papua New Guinea	47	27.8	18.8	26.3	68	4	17	30 b	**	41		49	**
130 Zimbabwe	53	29.2	39.8	9.1	21	29	48	16	420	6,542	15.6	41.0	26.0
131 Equatorial Guinea	***		33.7	20.1	5	ab	46	94		49	ad	*1	21
•			16.1	46.5	19	25	71	53	527	2,641	5.0	52.5	н.
132 India	59	35.9	16.1 21.1	33.6	35	75	45	27	790	4,220	5.3	14	31.0
133 Ghana	60	36.2	27.2	28.3	50	85	50	14	**	,	**	**	
134 Cameroon	62	38.1 32.3	34.9	23.1	66	d	31	17 b				**	**
135 Congo	56 49	28.2	29.8	20.7	47	- 4	23	23	238	4,347	18.3	50.2	37.0
136 Kenya	43	20.2		20.7									
137 Cambodia	**		28.0		70	_	81	52 38	907	4,288	4.7	11.6	34.0
138 Pakistan	71	42.1	14.7	59.1	21	15	44	26			7.7	, 110	3410
139 Comoros	58	34.6	20.6	44.6	47	18	77		**	**			
Low human development	-	44.9	32.3	53.5	43	64	63	38	*1	42	**	7*	**
140 Lao People's Dem. Rep.	66	38.9	29.5	41.4	56	33	82	40	700	2,931	4.2		46.0
141 Congo, Dem. Rep. of the		21	32.2	пр	58	41	82	34	411	44	11	**	10
142 Sudan	61	36.8	27.1	46.7	27	30	49	34		44-	**	**	
143 Togo	65	38.4	34.5	46.8	45	_ d	59	19	м	80	**	**	17.3
144 Nepal	85	51.9	22.5	61.9	29	90	84	47	455	1,975	4.3	53.1b	**
145 Bhutan	70	41.8	20.2	55.8	42	20	30	38 b	300	2 706	42.2	28.9	21.0
146 Nigeria	63	38.2	33.4	40.5	51	33	59	36	308	3,796	12.3		59.0
147 Madagascar	60	**	22.3	44	74	35	60	40	203	1,750	8.6	72.3	
148 Yemen	78	49.2	21.8	57.5	39	84	76	39	44	Ąh	+1	10	
	/0			61.6	26	70	68	23	290	3,743	12.9	31.45	57.0

4 Human poverty in developing countries	Hui	man	People not expected to			Population		Under- weight	Real	GDP per (	apita	below	ulation v income erty line (%)
HD1 rank	pov in (Hi	verty dex PI-1) 197 Value (%)	survive to age 40	Adult illiteracy rate (%) 1997	To safe water (%) 1990- 1997 *	To health services (%) 1981- 1992 a	To sani- tation (%) 1990- 1997 a	children under age five (%) 1990- 1997 a	Poorest 20% 1980- 1994 <sup>a</sup>	Richest 20% 1980- 1994 <sup>a</sup>	Richest 20% to poorest 20% 1980- 1994*	\$1 a day (1985 PPP\$) 1989- 1994*	National poverty line 1989- 1994 °
AEO Danahadash	73	44.4	21,5	61.1	5	26	57	56	606	2,445	4.0	28.5	48.0
150 Bangladesh		38.4	46.9	24.9	62	25	29	24	216	2,797	12.9	84.6	86.0
151 Zambia	64 74	46.1	26.7	54.2	63	55	75	28			44	**	8.0
152 Haitl		49.6	28.5	65.4	37	60	61	22	299	5,010	16.8	54.0	
153 Senegal	80		37.3	57.4	58	40	61	24	551	3,572	6.5	17.75	**
154 Côte d'Ivoire	76	46.8	3/-3							-,			
155 Benin	83	50.9	29.0	66.1	44	58	73	29	047	1.420		15.4	33.0
156 Tanzania, U. Rep. of	54	29.8	35.5	28.4	34	7	14	27	217	1,430	6.6	16.4	50.0
157 Djibouti	69	40.8	33.3	51.7	10	63	45	18	64		11		
158 Uganda	68	40.6	47.4	36.0	54	29	43	26	309	2,189	7.1	50.0	55.0
159 Malawi	72	42.2	47.8	42.3	53	20	97	30	40	20	83-	42.1	++
160 Appela			38.4		69	76	60	42	411	29	20	**	
160 Angola	82	50.5	38.3	62.1	54	55	69	26 h.e	270	4,518	16.7	26.3	
161 Guinea	86	52.1	37.4	49.7	76	74	79	39		.,	**		14
162 Chad	81	49.9	37.7	66.9	31	d d	63	26			40		64.0
163 Gambia	-		46.1	37.0		-		27	359	1,447	4.0	45.7 b	53.0
164 Rwanda	pt	69				15				1,			
165 Central African Republic	88	53.6	40.4	57.6	62	88	73	27	4.6	**	**	*	**
166 Mali	87	52.8	33.6	64.5	34	80	94	40		**	**	**	
167 Eritrea	26	**	31.8	44	78	_ d	87	44	Do	86	12		***
168 Guinea-Bissau	84	51.8	40.6	66.4	57	36	54	23 b	90	2,533	28.1	87.0	49.0
169 Mozambique	79	49.5	39.8	59.5	37	70	46	27	**	44	89	49	*11
170 Burundi	75	46.1	43.2	55.4	48	20	49	37	**	**	**		
171 Burkina Faso	91	59.3	40.5	79.3	58	30	63	30		99	84	10	**
172 Ethiopia	89	55.8	42.3	64.6	75	45	81	48	41	15		33.8 <sup>b</sup>	
173 Niger	92	65.5	35.7	85.7	52	70	83	43	296	1,742	5.9	61.5	16
174 Sierra Leone	90	57.7	51.0	66.7	66	64	89	29	49		11		75.0
All developing countries	_	27.7	14.6	28.4	28		57	31		¥A.			
Least developed countries	-	44.9	30.8	51.6	41		63	40	**		**		
Sub-Saharan Africa	_	40.6	34.6	42.4	50	**	56	32	4+	**	**		
Arab States		32.4	13.1	41.3	18		29	19	41	41	0		
East Asia	_	19.0	7.8	16.6	32		73	16	14			,	**
East Asia (excluding China)	_		4.7	3.9	10	<b>(</b> >	1	**	**	**	43.		**
South-East Asia and the Pacific	_	25.0	12.4	11.8	31		41	34	41			**	
South Asia	_	36.6	16.1	47.8	18		64	48			**	**	
South Asia (excluding India)	-	38.6	16,1	51.6	15		46	39			,,		10
Latin America and the Caribbean		14.5	9.9	12.8	22		29	10					
Eastern Europe and the CIS	_		8.3		-	·			.,	.,			

a. Data refer to the most recent year available during the period specified in the column heading.

3.1

12.5

Industrialized countries

World

Source: Columns 1 and 2: Human Development Report Office calculations; column 3: UN 1998h; column 4: calculated on the basis of data from UNICEF 1999a; column 6: unless otherwise noted, calculated on the basis of data from World Bank 1995; column 12: World Bank 1997a; column 13: World Bank 1997a and Lipton 1996.

29 1

b. Data refer to a year or period other than that specified in the column heading, differ from the standard definition or refer to only part of the country.

c. Human Development Report Office estimate based on national sources.

d. For the purpose of calculating the HPI-1, an estimate of 25%, the unweighted average for the 97 countries with data, was applied.

e. UNICEF 1998b.

f. UNICEF 1999a.



# 8 8	n industrialized			People not expected to survive to	People who are	Long-term	Re	al GDP per (PPP\$)	capita		on below overty line
		(HF	verty index N-2) 197 Value	age 60 (as % of total population)	functionally illiterate (% age 16-65)		Poorest 20%	Richest 20%	Richest 20% to poorest 20%	50% of median income	\$14.40 a day (1985 PPP\$)
HDI rank	k	Rank	(%)	1997	1995*	1997 <sup>b</sup>		1980-94°	1980-94°	1989-94 <sup>c, d</sup>	1989-95
Mich h	uman development	-	13.5	11.0	19.2	4.2	7.0	64	**	24	**
									7.1	11.7	5.9
	Canada	9	12.0 11.3	9.3 9.1	16.6 16.8 <sup>f</sup>	1.3 0.8	5,971 6,315	42,110 37,379	5.9	6.6	2.6
	Norway	4			20.7	0.5	5,800	51,705	8.9	19.1	14.1
	United States	17 8	16.5 12.0	12.6 8.2	16.8 f	0.7	8,987	38,738	4.3	11.8	3.7
	Japan	11	12.4	10.1	18.4 9	5.8	7,718	35,172	4.6	5.5	12.0
5	Belgium	11									
6 :	Sweden	1	7.0	8.7	7.5	1.4	7,160	33,026	4.6	6.7	4.6
7	Australia	12	12.5	8.9	17.0	2.4	4,077	39,098	9.6	12.9	7.8
8	Netherlands	2	8.3	9.3	10.5	3.3	7,109	31,992	4.5	6.7	14.4
9	Iceland	**	<b>&gt;1</b>	8.4	4+	0.7	**	4.0			.,,
10	United Kingdom	15	15.1	9.8	21.8	3.3	3,963	38,164	9.6	13.5	13.1
11	France	7	11.9	11.3	16.8 f	4.8	5,359	40,098	7.5	7.5	12.0 h
	Switzerland			9.8	18.9	1.0	5,907	50,666	8.6	+9	
	Finland	6	11.9	11.3	16.8 f	6.4	5,141	30,682	6.0	6.2	3.8
	Germany	3	10.4	10.7	14.4	4.3	6,594	37,963	5.8	5.9	11.5
	Denmark	10	12.2	12.8	16.8 1	1.8	5,454	38,986	7.1	7.5 h	7.6
[.]	Delilliark	10	14.4				-,				8.0
	Austria	+ 14	**	10.9	**	1.4	14	**		r a b	4.3 h
17	Luxembourg	**	1+	10.6	**	0.9	"			5.4 h	
18	New Zealand	13	12.8	11.1	18.4	1.3	4,264	37,369	8.8	9.2	3.0
19	Italy	5	11.6	9.0	16.8 (	8.1	6,174	37,228	6.0	6.5	2.0
20	Ireland	16	15.3	10.0	22.6	7.1		**	••	11.1 h	36.5 h
71	Spain	14	13.0	10.1	16.8 f	12.5	5,669	24,998	4.4	10.4	21.1
	Israel	17		9.3	10.00	**	4,539	29,957	6.6	**	4.5
	Greece	**	**	8.9	**	5.6			.,	**	**
			**	12.6	44	4.1			.,	**	
	Portugal	P 2	**	8.4		10		**	D		**
32	Malta	4.6	44		*1	**	••	"			
33	Slovenia		**	14.6	*1	**	44			**	<1.0 '
36	Czech Republic	44	**	14.2	**	1.2	4,426	15,764	3.6	**	<1.0 '
42 .	Slovakia	81	849	16.4	+4	64	3,344	8,823	2.6		<1.0
44	Poland	46		17.3	42.6	5.0	2,186	8,605	3.9	11.6	20.0 1
Mediu	m human development		70	26.1		**	14	**	10	et	**
47	Hungary			21.6	**	5.3	2,878	11,088	3.9	10.0	4.0
	Estonia	44	**	23.8	54	34	1,191	8,357	7.0		37.0 1
	Croatia	14	**	16.4	**	**	•	14	**		
	Belarus	14	**	26.1	**		2,355	6,981	3.0	41	22.0 '
	Lithuania			23.3	**	**	1,260	6,547	5.2	**	30.01
02	LIUIUdiiid	**	**			-			4.7		15.0 1
63	Bulgaria	**	**	18.3	*1	**	1,793	8,489	4.7	**	59.0
68	Romania	**	44	20.7	4.0	**	1,714	6,485	3.8	22.4	
71	Russian Federation	**	3+	29.7	**	**	881	12,804	14.5	22.1	50.0 '
	Macedonia, TFYR		**	14.0	**	+1		**	**	**	320
	Latvia		**	25.0	1+	**	2,405	9,193	3.8	**	22.0
75	Kazakhstan			25.8	24		1,391	7,494	5.4		65.0 '
		4-	**	17.5			14	**	14		bu
	Georgia	11	24	19.8	84			**	**	**	**
	Armenia	**	14	24.1	84		1,544	5,753	3.7		63.0 1
	Ukraine	**		25.1	84		.,	.,	48	**	63.0
92	Uzbekistan	**	**		**	**					61.0
96	Turkmenistan	41		27.6	40	**	1,048	6,694	6.4	.,	
97	Kyrgyzstan			25.4		**	14	14	**		88.0
	Albania	**	**	13.9	**	**	**	**	44	4.0	**
	Azerbaijan	19	**	22.1	44			4.040		44	
	Moldova, Rep. of		-+	25.7	94		818	4,918	6.0	**	66.0 '
TUM				25.3							

5 Human poverty

in industrialized countries, Eastern Europe and the CIS			People not expected to survive to	People who are	Long-term	Rea	al GDP per (PPP\$)	capita	Population income po	verty line
•	(HI	verty index 91-2) 97	age 60 (as % of total	functionally illiterate (% age	-	Poorest	Richest	Richest 20% to poorest	50% of median	\$14.40 a day (1985
HDI rank	Rank	Value (%)	population) 1997	16-65) 1995 °	labour force) 1997 <sup>b</sup>	<b>20%</b> 1980-94 °	<b>20%</b> 1980-94 °	20% 1980-94 °	1989-94 <sup>c d</sup>	PPP\$) 1989-95< e
All developing countries	_	**	28.1	**		**		**		
Eastern Europe and the CIS	_	**	24.7	.,	**		40			
Industrialized countries	-	13.5	10.6	18.0	4.2					
World	-	**	25.3			**		**	**	

- a. Based on level 1 prose. Data refer to 1995 or a year around 1995.
- b. Data refer to unemployment lasting at least 12 months or more.
- c. Data refer to the most recent year available during the period specified in the column heading.
- d. Poverty is measured at 50% of the median adjusted disposable personal income.
- e. Based on US poverty line.
- f. For the purpose of calculating the HPI-2, an estimate of 16.8%, the unweighted average for level 1 prose (excluding Poland) was applied.
- g. Data refer to Flanders.
- h. Data refer to a year or period other than that specified in the column heading.
- i. Income poverty line is \$4 (1990 PPP\$) a day per person.

Source: Columns 1 and 2: Human Development Report Office calculations, column 3: UN 1998h; column 4. OECD 1997a; column 5: OECD 1998b, columns 6-8: calculated on the basis of data from World Bank 1995; columns 9 and 10: Smeeding 1997 and Milanovic 1998.

	Н	luman devel	opment index	(HDI) value			Gl	DP per capita (1987 US\$)		
IDI rank	1975	1980	1985	1990	1997	1975	1980	1985	1990	1997
High human development	**	44			0.904	11,459	12,409	13,220	15,052	16,576
	0.862	0.879	0.901	0.924	0.932	11,832	13,509	14,783	15,895	16,525
1 Canada		0.869	0.880	0.891	0.927	14,517	17,991	20,634	21,975	27,620
2 Norway	0.850				0.927	15,264	16,756	18,000	19,652	21,541
3 United States	0.865	0.885	p0.897	0.911	0.924	13,825	16,384	18,691	22,928	25,084
4 Japan	0.851	0.875	0.890	0.906			13,354	13,760	15,897	16,809
5 Belgium	49	49	αn	40	0.923	11,527	13,334			
6 Sweden	0.859	0.869	0.880	0.888	0.923	16,049	16,903	18,346	20,018	20,309
7 Australia	0.838	0.855	0.867 -	0.880	0.922	10,439	11,388	12,328	13,070	15,186
8 Netherlands	0.856	0.868	0.883	0.896	0.921	12,599	13,855	14,406	16,283	18,369
	0.853	0.874	0.884	0.902	0.919	13,903	18,002	19,441	21,474	23,112
9 Iceland		0.848	0.856	0.876	0.918	9,310	10,161	11,121	12,899	14,096
10 United Kingdom	0.840									18,554
11 France	0.848	0.864	0.875	0.896	0.918	12,763	14,564	15,342	17,485	
12 Switzerland	н	3.5	**	44	0.914	22,043	24,291	25,417	28,114	26,441
13 Finland	0.834	0.855	0.871	0.893	0.913	13,374	15,140	16,888	19,576	19,816
14 Germany		14	44	19	0.906	44	d h	20	40	47
	0.861	0.869	0.878	0.885	0.905	15,080	16,858	19,190	20,511	23,303
15 Denmark	0.001						14 006	15,028	17,201	18,594
16 Austria	0.836	0.849	0,863	0.886	0.904	11,901	14,006		22,501	28,010
17 Luxembourg	**				0.902	13,782	15,231	17,133		
18 New Zealand	0.843	0.852	0.862	0.872	0,901	9,801	9,824	10,820	10,782	11,565
19 Italy	0.824	0.842	0.852	0.875	0.900	9,629	11,763	12,637	14,595	15,548
20 Ireland	0.811	0.824	0.839	0.863	0.900	6,675	7,791	8,489	10,804	15,779
So licidid				0.071	0.894	6,415	6,657	6,992	8,618	9,591
21 Spain	0.814	0.834	0.851	0.871			6,016	7,451	10,200	15,467
22 Singapore	0.737	0.767	0.796	0.834	0.888	4,557	-	8,109	9,097	10,712
23 Israel	qn	44	te		0.883	7,121	7,653		9,897	12,439
24 Hong Kong, China (SAR)	0.757	0.796	0.823	0.859	0.880	3,895	5,939	7,201		
25 Brunei Darussalam	44	414	440	10	0.878	12,842	17,052	12,255	11,193	111
					0.870	2,390	4,165	5,146	6,828	
26 Cyprus	64		0.075	0,846	0.867	4,552	5,338	5,557	6,044	6,583
27 Greece	0.792	0.814	0.835		0.858	3,117	3,721	3,794	4,897	5,564
28 Portugal	0.735	0.758	0.786	0.815		4,427	5,456	5,139	6,008	· .
29 Barbados	34	8.6	49		0.857		1,929	2,677	4,132	6,25
30 Korea, Rep. of	0.680	0.716	0.761	0.804	0.852	1,461	1,323			-,
			pd.	46	0.851	6,477	10,265	11,159	11,227	,
31 Bahamas	4.0	14		48	0.850	2,391	3,718	4,279	5,601	•
32 Malta	au au	49	47		0.845		54		**	
33 Slovenia	24	vn.		100	0.844	1,199	1,579	1,526	1,923	2,67
34 Chile	do	48		6=	0.833	24,353	18,431	11,440	89	
35 Kuwait	94		**	d+		24,555	101		2 600	2 22
36 Czach Rapublic		41	94		0.833	ah	40	3,411	3,680	3,32
36 Czech Republic	64		et et	44	0.832	db	10,037	7,344	7,240	7,99
37 Bahrain	00	94	20	H	0.828	ė»	2,982	3,797	5,250	4.05
38 Antigua and Barbuda	0.776	0.790	0.798	0.803	0.827	3,779	3,999	3,333	3,150	4,02
39 Argentina	0.776	0.790	0.783	0.803	0.826	2,144	2,590	2,079	2,407	2,99
40 Uruguay	0.759	0.779	0.703	0.005		·				
41 Oatar	40	41	ès	5.0	0.814	44	84	3 436	3,622	3,43
42 Slovakia	64	wir	0.798	0.803	0.813	**	H 20.005	3,436		15,30
	0.735	0.767	0.780	0.803	0.812	29,249	29,887	19,971	16,858	
43 United Arab Emirates		0.774	0.778	0.780	0.802		1,687	1,622	1,559	1,92
44 Poland	0.741	0.766	0.767	0.783	0.801	1,589	1,766	1,552	1,684	1,86
45 Costa Rica			44	**	0.662	651	779	790	902	93
Medium human development	0.746	0.776	0.784	0.787	0.797	3,794	5,218	4,414	3,759	3,99
46 Trinidad and Tobago	0.746				0.795	1,756	2,059	2,312	2,456	2,3
47 Hungary		0.753	0.761	0.780	0.792	3,175	3,022	2,540	2,537	2,6
48 Venezuela	0.740	0.753	0.761		0.791	2,277	2,399	2,558	2,235	2,6
49 Panama	49	20	dh	84		1,591	1,923	1,893	1,873	1,9
50 Mexico	44	80	04	et	0.786	1,001	t just desired	1,000	.,	,-

## 6 Trends in human development and per capita income

		Human deve	lopment inde	x (HDI) value			(	IDP per capit (1987 US\$)	а	
HDI rank	1975	1980	1985	1990	1997	1975	1980	1985	1990	1997
51 Saint Kitts and Nevis 52 Grenada	49	86	85	64	0.781 0,777	66 45	1,767 1,223	2,156 1,498	3,083 1,884	1+
53 Dominica 54 Estonia	49	0.788	0.798	0.790	0.776 0.773	1,087	1,140 3,354	1,492 3,712	1,989 3,683	2,196 <sup>a</sup> 2,984
55 Croatia	06	64	¢ā	38	0.773	91	**			**
56 Malaysia 57 Colombia	0.614	0.654	0.691	0.718	0.768 0.768	1,253 880	1,688 1,020	1,902 1,027	2,262 1,163	3,387 1,321 <sup>a</sup>
58 Cuba 59 Mauritius 60 Belarus	0.635	0.661	0.692	0.728 0.793	0,765 0,764 0,763	1,098	1,297	1,550	2,129 2,738	<b>2,752 2,013</b>
61 Fili	0.674	0.696	0.708	0.735	0.763	1,641	1,817	1,688	1,880	1,986
62 Lithuania 63 Bulgaria 64 Suriname	24 110 24	0.752	0.776	0.780 0.777 	0.761 0.758 0.757	1,159	2,344 1,214	2,870 1,539	2,684 3,176 1,953	2,013 2,332
65 Libyan Arab Jamahiriya 66 Seychelles	40	* 100	0.0 pc	d to	0.756 0.755	10,459 2,551	13,219 3,459	6,926 3,513	4,400	4,632
67 Thailand 68 Romania	0.604 0.722	0.647 0.756	0.678 0.762	0.717 0.745	0.753 0.752	557 1,105	718 1,511	854 1,722	1,291 1,452	1,870 1,457
69 Lebanon 70 Samoa (Western)	40	ti qi	€P €÷	20	0.749 0.747	0·9	655	615	626	633 °
71 Russian Federation 72 Ecuador 73 Macedonia, TFYR	0.645	0.753 0.693	0.769 0.715	0.786	0.747 0.747 0.746	2,250 1,027	3,219 1,226	3,050 1,199	4,507 1,170	2,742 1,257
74 Latvia 75 Saint Vincent and the Grenadines	8b 8d	0.765	0.780	0.778	0.744 0.744	2,290 725	2,689 940	3,060 1,222	3,530 1,627	2,153
76 Kazakhstan 77 Philippines 78 Saudi Arabia 79 Brazil 80 Peru	0.646 0.595 0.639 0.641	0.680 0.651 0.672 0.669	0.683 0.671 0.687 0.691	 0.711 0.707 0.708 0.703	0.740 0.740 0.740 0.739 0.739	568 8,970 1,662 1,197	679 10,225 2,045 1,170	562 5,744 1,942 1,035	1,782 619 5,434 1,948 849	1,015 a 652 5,057 2,107 1,112
81 Saint Lucia 82 Jamaica 83 Belize 84 Paraguay	0.655	0.688	0.695	0.706	0.737 0.734 0.732 0.730	1,585 1,279 741	1,286 1,598 1,055	1,737 1,195 1,430 992	2,472 1,459 1,991 1,028	1,433 ° 2,111 1,047
85 Georgia · 86 Turkey	25	10 d	84 43	94	0.729 0.728	1,284	1,323	1,478	1,735	1,940 *
87 Armenia 88 Dominican Republic 89 Oman 90 Sri Lanka	0.617  0.605	0.654  0.641	0.685	0.693	0.728 0.726 0.725	550 726 3,789	715 815 3,587	890 819 5,733	848 837 5,653	1,032
91 Ukraine	6.003	0.041	0.071	0.694	0.721 0.721	278	328	401	439 1,165	551 496
92 Uzbekistan 93 Maldives	nb de	44	bp pa	0.0	0.720 0.716	99 99	Gr eh	421	594	749 ª
94 Jordan 95 Iran, Islamic Rep. of	en ##	20	Ti qu Di de	**	0.715 0.715	1,209 4,386	2,098 2,980	2,238 3,275	1,771 2,734	2,006
96 Turkmenistan 97 Kyrgyzstan	26	20	-	-	0.712	40	*	00	**	
98 China 99 Guyana	0.521	0.554	0.588	0.624	0.702 0.701 0.701	109 624	138 584	210	210 285	111 564
100 Albania	25	0.699	0.706	0.702	0.699	024	696	447 696	394 640	562

# 6 Trends in human development and per capita income

		luman develo	opment index	(HDI) value			G	DP per capita (1987 US\$)	1	
DI rank	1975	1980	1985	1990	1997	1975	1980	1985	1990	1997
101 South Africa	0.637	0.652	0.671	0.700	0.695	2,656	2,745	2,543	2,468	2,336
102 Tunisia	0.510	0.566	0.608	0.640	0.695	980	1,177	1,272	1,310	1,670
103 Azerbaijan	44	P1	*1	0.755	0.695	**	***	44	1,130	402
104 Moldova, Rep. of	**	47	pn.	80	0.683	40	0.0	pe		64
105 Indonesia	0.471	0.533	0.586	0.630	0.681	265	349	417	537	785
106 Cape Verde	49	64	0.573	0.610	0.677	**	40	718	790	856
107 El Salvador	vie vie	01	14	ρE	0.674	1,082	976	813	837	1,011
108 Tajikistan	de		64	11	0.665	44	64	11	718	240
109 Algeria	0.511	0.556	0.605	0.637	0.665	2,315	2,683	2,966	2,624	2,352
110 Viet Nam	n Pili	49	#o	10	0.664	9.0	άÞ	19	41	14
				pa.	0.663	998	1,168	1,132	1,040	1,288
111 Syrian Arab Republic	0.524	0.558	0.584	0.611	0.652	250	252	208	220	244
112 Bolivia 113 Swaziland	0.497	0.528	0.556	0.605	0.644	717	699	693	961	947
114 Honduras	0.515	0.563	0.595	0.616	0.641	834	999	928	927	969
115 Namibia	0.313	0.604	0.620	0.644	0.638	0.0	1,880	1,571	1,515	1,670
	**				0.627		820	962	914	836
116 Vanuatu	0.547	0.000	V E23	0.588	0.624	910	1,060	883	902	990
117 Guatemala	0.517	0.552	0,563		0.623	312	434	496	583	606
118 Solomon Islands	49	49	**	49	0.618			49	88	41
119 Mongolia	0.422	0.470	0.531	0.573	0.616	467	678	827	900	1,015
120 Egypt	0.432	0.479	0.331	0,012						1,022
121 Nicaragua	19	84	**	64	0.616	1,904	1,338	1,198	845	2,101
122 Botswana	0.501	0.565	0.624	0.670	0.609	621	959	1,301	1,781 496	454
123 São Tomé and Principe	D-0	49	an	6-9	0.609	0.553	r 225	4 000	4,422	4,579
124 Gabon	0:0	4.0	00	64	0.607	6,562	5,225	4,883		
125 Iraq		44	84	34	0.586	5,178	6,600	3,586	1,621	
126 Morocco	0.426	0.473	0.508	0.540	0.582	641	782	822	916	927
127 Lesotho	0.471	0.512	0.537	0.569	0.582	171	242	229	286	391
128 Myanmar	60	40	.,	44	0.580	**			000	1.000
129 Papua New Guinea	20	48	41	1 10	0.570	947	881	848	802	1,060
130 Zimbabwe	0.539	0.562	0.619	0.609	0.560	828	783	782	842	830
131 Equatorial Guinea		60	н	47	0.549		*1	376	357	944
132 India	5-3	44		A.P	0.545	251	262	305	374	465
133 Ghana	0.431	0.461	0.475	0.506	0.544	456	438	365	391	437
134 Cameroon	0.422	0.467	0.519	0.534	0.536	735	871	1,183	911	756
135 Congo	0.450	0.499	0.545	0.531	0.533	829	907	1,281	1,092	946
			0.521	0.544	0.519	332	370	354	392	372
136 Kenya	0.453	0.498	ViJET	QLU'T'Y	0.514	**	F1	**	111	139
137 Cambodia	0.347	n 277	0.414	0.455	0.508	222	258	313	364	417
138 Pakistan 139 Comoros	0.347	0.377 0.470	0.495	0.500	0.506	l+	458	500	475	380
Low human development		ы	14	, ga	0.416	332	331	297	305	282
	40		0.405	0.434	0.491	**		293	322	41
140 Lao People's Dem. Rep.	áb	pn pn		W-737	0.479	307	241	225	190	9
141 Congo, Dem. Rep. of the	hò	9.6		80	0.475	1,065	1,026	943	891	
142 Sudan	0.30E	0.441	0.438	0.456	0.469	430	474	404	394	36
143 Togo	0.395	0.441 0.327	0.368	0.411	0.463	153	151	169	185	21
144 Nepal	0.289			ы.	0.459	*1	312	393	517	
145 Bhutan	04	(m	- 705		0.456	349	373	277	311	31
146 Nigeria	0,322	0.379	0.395	0.419	0.453	324	305	246	245	20
147 Madagascar	100	44	ht	âv	0.433			**	**	
148 Yemen	40		0.205	0.402	0.445	512	523	477	466	51
149 Mauritania	0.343	0.366	0.386	0,402	0.447	134	145	165	179	21
150 Bangladesh	0.318	0.336	0.369	0.400	UITTU	131				

6 Trends in human development and per capita income

		Human deve	lopment inde	x (HDI) value		GDP per capita (1987 US\$)					
HDI rank	1975	1980	1985	1990	1997	1975	1980	1985	1990	1997	
151 Zambia	0,453	0.467	0.483	0.460	0.431	438	380	329	302	300	
152 Haiti	94	24	64	0.432	0.430	353	428	372	340	258	
153 Senegal	0.326	0.344	0.369	0.393	0.426	716	661	664	676	674	
154 Côte d'Ivoire	0.374	0.407	0.415	0.416	0.422	1,169	1,181	992	893	899	
155 Benin	0.306	0.342	0.370	0.377	0.421	316	337	381	332	371	
156 Tanzania, U. Rep. of	40.	94	en	**	0.421	14	**	**	.,	4+	
157 Djibouti	WP	14	44	-04	0.412	64	6.0	44	60	44	
158 Uganda	**	14	0.373	0.364	0.404	14		426	470	602	
159 Malawi	0.328	0,352	0.366	0.367	0.399	155	167	159	154	166	
160 Angola	ye	50	9.0	12	0.398	88	49	832	847	662	
161 Guinea	#8	84	40	0.352	0.398	40	0.0	60	409	447	
162 Chad	0.286	0.310	0.341	0.366	0.393	196	208	226	215	211	
163 Gambia	0.270	0.303	0.332	0.354	0.391	259	278	278	275	256	
164 Rwanda	0.323	0.368	0.411	0.321	0.379	247	340	341	316	222	
165 Central African Republic	0.342	0.361	0.383	0,384	0.378	523	480	472	418	387	
166 Mali 167 Eritrea	0.246	0.274	0.289	0.319	0.375 0.346	239	268	242	260	271	
168 Guinea-Bissau	0.249	0.248	0.279	0.302	0.343	 217	157	194	209	234	
169 Mozambique	40	0.302	0.294	0.334	0.341		165	123	173	199	
170 Burundi	0.282	0.308	0.340	0.343	0.324	179	195	219	229	162	
171 Burkina Faso	0.237	0.257	0.280	0.290	0.304	223	237				
172 Ethiopia		******	0.258	0.281	0.298			255	257	290	
173 Niger	0.247	0.269	0.267	0.283	0.298	391	430	139	153	171	
174 Sierra Leone	dý	**	***	"	0.254	256	260	318 227	308 227	269 159 <sup>4</sup>	
All developing countries					0623						
Least developed countries	**	"	4+	**	0.637	600	686	693	745	908	
Sub-Saharan Africa			**	6.4	0.430	287	282	276	277	245	
Arab States	**		**	**	0.463	671	661	550	542	518	
East Asia	••	**	**	**	0.626	2,327	2,914	2,252	1,842		
East Asia (excluding China)		**	**	**	0.712	176	233	336	470	828	
South-East Asia and the Pacific		**	**	**	0.849	1,729	2,397	3,210	4,809	7,018	
South Asia		**	**	**	0.695 0.544	481	616	673	849	1,183	
South Asia (excluding India)			**	**	0.544	404	365	427	463	432	
Latin America and the Caribbean	"		14	*1		857	662	768	709	327	
Eastern Europe and the CIS			**	**	0.756	1,694	1,941	1,795	1,788	2,049	
Industrialized countries		"		**	0.754	13.500	11200		2,913	1,989	
World	**			**	0.919	12,589	14,206	15,464	17,618	19,283	
				44	0,706	2,888	3,136	3,174	3,407	3,610	

a. Data refer to 1996.

Source: Columns 1-5: Human Development Report Office calculations; columns 6-10: calculated on the basis of data from World Bank 1999b.

GDP	рег	capi	ta
(19	387 [	USSY	

growth					(1987 US\$)						
		numan deve (HDI)	nortfall (1 ~   elopment in value %)			Lowest value during		Highest value during			Average annual rate of change (%)
HDI rank	1975-80	1980-85	1985-90	1990-97	1975°	1975-97°	Year	1975-97*	Year	1997*	1975-97°
High human development		41	ę.	**			du	96	10	p4	ða.
† Canada	12.1	18.2	22.8	10.4	11,832	11,832	1975	16,525	1997	16,525	1.5
2 Norway	12.9	8.0	9.7	33.1	14,517	14,517	1975	27,620	1997	27,620	3.0
3 United States	14.7	10.4	13.5	17.9	15,264	15,264	1975	21,541	1997	21,541	1.6
4 Japan	16.2	11.5	14.8	19.5	13,825	13,825	1975	25,084	1997	25,084	2.8
5 Belgium	**	**	11	**	11,527	11,527	1975	16,809	1996	16,809 b	1.8
6 Sweden	7.0	8.2	7.1	30.8	16,049	15,845	1977	20,309	1997	20,309	1.1
7 Australia	10.6	8.0	10.4	35.0	10,439	10,439	1975	15,186	1997	15,186	1.7
8 Netherlands	8.4	10.8	11.7	23.7	12,599	12,599	1975	18,369	1997	18,369	1.7
9 Iceland	14.6	7.9	15.5	16.9	13,903	13,903	1975	23,112	1997	23,112	2.3
10 United Kingdom	4.9	5.8	13.9	33.5	9,310	9,310	1975	14,096	1997	14,096	1.9
	10.2	8.6	16.9	20.5	12,763	12,763	1975	18,554	1997	18,554	1.7
11 France				2013	22,043	21,936	1976	28,114	1990	26,441 b	0.9
12 Switzerland	12.1	11.1	17.6	18.1	13,374	13,238	1977	19,816	1997	19,816	1.8
13 Finland		11 11			46	**		***		40	**
14 Germany 15 Denmark	5.9	6.8	5.7	17.0	15,080	15,080	1975	23,303	1997	23,303	2.0
					11,901	11,901	1975	18,594	1997	18,594	2.1
16 Austria	8.4	9.1	16.5	16.5	13,782	13,782	1975	28,010	1996	28,010 b	3.4
17 Luxembourg		7.0	7.6	22.7	9,801	9,446	1978	11,639	1995	11,565	0.8
18 New Zealand	5.5	7.0 6.7	15.5	20.0	9,629	9,629	1975	15,548	1997	15,548	2.2
19 Italy	10.0 6.9	8.7	14.9	27.0	6,675	6,661	1976	15,779	1997	15,779	4.0
20 Ireland									1997	9,591	1.8
21 Spain	10.6	10.3	13.2	18.5	6,415	6,415	1975 1975	9,591 15,467	1997	15,467	5.7
22 Singapore	11.2	12.4	18,8	32.5	4,557	4,557	1977	10,505	1995	10,505 °	2.0
23 Israel	45	44		45.0	7,121	6,899	1975	12,439	1997	12,439	5.4
24 Hong Kong, China (SAR)	16.3	13.0	20.2	15.2	3,895	3,895 10,574	1995	19,148	1979	10,574 °	-1.0
25 Brunei Darussalam	94	45	90	**	12,842						
26 Cyprus	<b>#</b>	48	dh	44	2,390	2,390	1975	7,543	1994	7,543 4	6.2 1.7
27 Greece	10.6	11.3	6.7	13.6	4,552	4,552	1975	6,583	1997	6,583 5,564	2.7
28 Portugal	8.8	11.4	13.4	23.3	3,117	3,117	1975	5,564	1997 1989	5,779 °	1.3
29 Barbados	41	64	07	45	4,427	4,419	1976	6,376	1997	6,251	6,8
30 Korea, Rep. of	11.2	15.9	17.9	24.6	1,461	1,461	1975	6,251			
31 Bahamas		48	44	e4	6,477	6,477	1975	11,362	1989	10,037 °	2.2
32 Malta	16	14	61	hi	2,391	2,391	1975	6,986	1995	6,986 °	5.5
33 Slovenia	94	15	da	**	44	49	44		1005	2 CZZ b	20
34 Chile	P4	ah	an.	48	1,199	1,199	1975	2,677	1996	2,677 <sup>b</sup> 17,971 <sup>c</sup>	3.9 -1.5
35 Kuwait	**	4.0	gh.	M	24,353	10,578	1988	25,125	1979		
36 Czech Republic			24	90	3,395 °	2,937	1993	3,726	1989	3,329 b	-0.2
37 Bahrain	19.0	98	50	68	10,03 f	6,921	1987	10,037	1980	7,997 b	-1.4
38 Antigua and Barbuda	h4	98	66	40	2,982 f	2,982	1980	5,878	1994	5,878 d	5.0
39 Argentina	6.0	3.7	2.4	12.1	3,779	3,150	1990	4,021	1997	4,021	0.3
40 Uruguay	8.3	2.1	9.2	11.7	2,144	2,061	1984	2,992	1997	2,992	1.5
	0.0	-			**	44	41	40	10	4.0	
41 Qatar	46	94	2.6	4.8	3,340 °		1993	3,715	1989	3,432	0.2
42 Slovakia	12.1	E 5	10.6	4.6	29,249	14,124	1994	29,887	1980	15,300	-2.9
43 United Arab Emirates	12.1	5,5 1.8	0.8	10.0	1,687 f	1,421	1992	1,926	1997	1,926	8.0
44 Poland 45 Costa Rica	9.6	0.1	7.2	8.2	1,589	1,513	1983	1,908	1995	1,865	0.7
3.00	-	_		01			10	91	WA.	- M	94
Medium human development	42.4	2 5	1.6	4.6	3,794	3,646	1993	5,356	1981	3,990	0.2
46 Trinidad and Tobago	12.1	3.5		40	1,756	1,756	1975	2,511	1989	2,372 6	
47 Hungary	 5.7	3.0	8.2	5.2	3,175	2,455	1989	3,384	1977	2,685	8.0-
48 Venezuela	5.2			**	2,277	2,108	1989	2,688	1996	2,688 t	
49 Panama	49	· #		26	1,591	1,591	1975	2,043	1981	1,910 1	0.9
50 Mexico	po.	84	'n m	als	1,591	1,591	19/5	2,043	1301	17510	

7 Trends in human development and economic growth

GDP per capita (1987 US\$)

		Reduction in shortfall (1 - HDI) in human development index (HDI) value (%)				Lowest value during		Highest value during			Average annual rate of change (%)
HDI rank	1975-80	1980-85	1985-90	1990-97	1975 *	1975-97	<sup>a</sup> Year	1975-97	Year	1997 *	(%) 1975-97 a
51 Saint Kitts and Nevis					4 427 0	1.477	1077	2.005	1005	2.005.4	
52 Grenada	84	41	45	**	1,427 g 1,223 f	1,427	1977	3,895	1995	3,895 °	5.7
53 Dominica	81	91	-	en.	1,087	1,223 967	1980 1979	2,023 2,196	1995 1996	2,023 °	3.4
54 Estonia		4.7	-3.8	-7.9	3,354 (	2,443	1994	4,015	1989	2,196 <sup>b</sup> 2,984	3.4 -0.7
55 Croatia		14	14	- 11	00	2,770	1334	4,015			
56 Małaysia	10.3	10.8	8,8	17.7	1,253		1975		1007	2.207	
57 Colombia	10.2	10.0			880	1,253 880	1975	3,387	1997	3,387	4.6
58 Cuba		49	85	ed se	000			1,321	1996	1,321 b	2.0
59 Mauritius	7.1	9.1	11.6	13.4	1,098	1,098	1975	2,752	1997	2,752	4.3
60 Belarus	01	44	P4	-14.2	2,460 h	1,739	1995	2,778	1989	2,013	-2.0
61 Fiji	6.8	4.0	9.1	10.5	1,641						
62 Lithuania		47.0		-8.5	2,482 h	1,641 1,808	1975 1993	1,995	1996	1,986	0.9
63 Bulgaria	н	9.5	0.3	-8.5	2,462 f	2,332	1997	2,799	1989 1988	2,013	-2.1
64 Suriname	**	**	**		1,159	1,113	1983	3,510 2,765	1987	2,332 2,089 °	0,0
65 Libyan Arab Jamahiriya	bu .	ña.	40	94	10,459	5,466	1989	13,731	1979	5,466	3.0 -4.5
66 Seychelles						Ť					
67 Thailand	10.8	8.8	12.0	12.9	2,551 557	2,551	1975	4,920	1993	4,632	2,8
68 Romania	12.2	2.2	-7.1	2.8	1,105	557 1,105	1975 1975	1,896	1996	1,870	5.7
69 Lebanon		**	40	£U				1,756	1986	1,457	1.3
70 Samoa (Western)		**	19	14 14	638	560	1994	703	1070	633 h	0.0
71 Russian Federation		6.5							1979	633 b	0.0
72 Ecuador	13.3	7.2	7.5 3.9	-18,5	2,250	2,250	1975	4,665	1989	2,742	0.9
73 Macedonia, TFYR	t of suf			7.6	1,027	1,027	1975	1,257	1997	1,257	0.9
74 Latvla	49	6.2	-0.9	-14.9	2 200	1.004	1000	3.550			
75 Saint Vincent and the Grenadines	**	24	0.5		2,290 725	1,884 725	1993	3,558	1989	2,153	-0.3
76 Kazakhstan			64	0.0			1975	1,813	1995	1,813 °	4.7
77 Philippines	9.6	1.1	0.7	40.4	1,880 h	1,001	1995	1,922	1988	1,015 b	-6.6
78 Saudi Arabia	13.8	5.9	8.7 11.0	10.1	568	562	1985	695	1982	652	0.6
79 Brazil	9.1	4.5	6.7	11.1 10.7	8,970	5,057	1997	10,225	1980	5,057	-2.6
80 Peru	7.8	6,7	3.8	12.2	1,662 1,197	1,662	1975	2,107	1997	2,107	1.1
81 Saint Lucia			3.0	14.6		849	1990	1,225	1981	1,112	-0.3
82 Jamaica	ńę	+0	**	14	1,737 1	1,737	1985	2,721	1994	2,721 d	5.1
83 Belize	94	90	69	**	1,585	1,195	1985	1,585	1975	1,433 b	-0.5
84 Paraguay	9.8	2.1	3.8	9.0	1,279	1,252	1976	2,153	1993	2,111	2.3
85 Georgia	н			8.0	741	741	1975	1,112	1981	1,047	1.6
86 Turkey	,,	46		11	ng	8.0	94	00	61	44	ht
87 Armenia	40	16	84	hts	1,284	1,284	1975	1,940	1996	1,940 b	2.0
88 Dominican Republic	9.8	9.0	26	10.7	550	251	1993	946	1989	283 <sup>c</sup>	-3.3
89 Oman			2.6	10.7	726	726	1975		1997	1,032	1,6
90 Sri Lanka	9,1	8.5	6,8	80	3,789	3,587	1980		1995	5,763 °	2.1
91 Ukraine	-17	VI.J	0.0	8.9	278	278	1975	551	1997	551	3.2
92 Uzbekistan	9.5	1-0	4-5	Ast	1,181 h	496	1997	1,247	1989	496	-8.3
93 Maldives	÷e-	84	49	**	44	**	86		11	**	14
94 Jordan	9.8	8-0	24	-	421 k	421	1985		1996	749 b	5.4
95 Iran, Islamic Rep. of	**	Uni.	46	na.	1,209	1,209	1975		1986	2,006	2.3
96 Turkmenistan	14	44	14	94	4,386	2,503	1988	4,977	1976	3,156 °	-1,6
97 Kyrgyzstan	8+	ė n	**	94	+4		24	44	**	4=	41
98 China	60	7 7		44	45 h		1987		1990	111	9.4
99 Guyana	6.8	7.7	8.6	20.7	109	101	1976		1997	564	7.8
100 Albania	61	2.2	1.7		624		1990		1976	542 °	-0.7
	86	Link	-1.2	-0.9	696 <sup>r</sup>	442	1992	728	1982	562	-1.3

GDP per capita (1987 US\$)

growth								(1307-0	/		
	in t	numan deve (HDI) (°	nortfall (1 - elopment in value %)	dex		Lowest value during		Highest value during			Average annual rate of change (%)
HDI rank	1975-80	1980-85	1985-90	1990-97	1975 *	1975-97 *	Year	1975-97 *	Year	1997 *	1975-97 ª
101 South Africa	4,0	5.5	9.0	-1.8	2,656	2,270	1993	2,848	1981	2,336	-0.6
102 Tunisia	11.4	9.7	8.2	15.2	980	980	1975	1,670	1997	1,670	2.5
103 Azerbaijan	29		14	-24.6	1,415 h	389	1995	1,415	1987	402	-11.8
104 Moldova, Rep. of	02		åa.	н	**	**	49		49	40	84
105 Indonesia	11.6	11.3	10.7	13.8	265	265	1975	785	1997	785	5.1
106 Cape Verde	80	67	8.6	17.2	547 1	547	1981	856	1997	856	2.8
107 El Salvador	p.e.		14	ы	1,082	800	1986	1,165	1978	1,011 5	-0.3
108 Tajikistan	FT	10	84	84	789 m	240	1996	813	1988	240 b	-11.2
109 Algeria	9.2	11.2	8.0	7.5	2,315	2,315	1975	2,966	1985	2,352	0.1
110 Viet Nam		**	19	94	**			94	41	49	4-
111 Syrian Arab Republic					998	991	1989	1,288	1996	1,288 <sup>b</sup>	1.2
112 Bolivia	7.3	5.9	6.5	10.6	250	207	1987	266	1978	244	-0.1
113 Swaziland	6.2	6.0	10.9	9.9	717	652	1979	961	1990	947	1.3
114 Honduras	10.0	7.3	5.2	6.4	834	834	1975	1,027	1979	969	0.7
115 Namibia	10.0	4.0	6.4	-1.7	1,880 f	1,515	1990	1,880	1980	1,670	-0.7
	**	***				· ·					-0.7
116 Vanuatu	n	n n	- 7	0.0	947 8	793	1992 1986	968	1984 1980	836 990	0.4
117 Guatemala	7.4	2.4	5.7	8.8	910 312	862 312	1975	1,060 651	1995	606 b	3.2
118 Solomon Islands		0.0	++								
119 Mongolia	•	10.1	8.9	10.2	467	467	1975	1,015	1997	1,015	3.6
120 Egypt	8.3	10.1	0.5	10-2				,			
121 Nicaragua	9.5	10	**	80	1,904	772	1993	2,069	1977	1,022 b	-2.9
122 Botswana	12.8	13.5	12.4	-18.5	621	621	1975	2,101	1997	2,101	5.7
123 São Tomé and Principe	b-s	94	tv	88	525 h	454	1997	525	1987	454	-1.4
124 Gabon	5.0	24	14	44	6,562	3,766	1987	8,617	1976	4,575	-1.6
125 Iraq	2.9	fre	84	ño.	5,178	776	1991	8,313	1979	776 °	-11.2
126 Morocco	8.0	6.7	6.5	9.2	641	641	1975	968	1996	927	1.7
127 Lesotho	7.6	5.1	7.1	2.9	171	171	1975	391	1997	391	3.8
128 Myanmar	no	14	84	**	411	41	**	61	**	**	14
129 Papua New Guinea	5.9	DI	b-4	89	947	802	1990	1,120	1994	1,060 b	0.5
130 Zimbabwe	5.0	13.0	-2.6	-12,6	828	695	1979	869	1991	830	0.0
131 Equatorial Guinea	64	pt	н	44	376 k	345	1991	944	1997	944	8.0
132 India	30	14	64	wa	251	250	1976	465	1996	465 b	3.0
133 Ghana	5.2	2.6	5.8	7.9	456	343	1983	465	1978	437	-0.2
134 Cameroon	7.8	9.8	3.0	0.6	735	676	1976	1,229	1986	756	0.1
135 Congo	9,0	9.2	-3.1	0.3	829	719	1977	1,334	1984	946	0.6
136 Kenya		4.7	4.7	-5.4	332	327	1976	392	1990	372	0.5
137 Cambodia	8.2			- Ja-T	105 h	105	1987	139	1997	139	2.9
138 Pakistan	4.6	5.9	7.1	9.6	222	222	1975	417	1997	417	2.9
139 Cornoros	4.0	4.7	1.0	1.2	458 <sup>1</sup>	380	1997	502	1984	380	-1.1
	**				14	p4.	M.	the state of the state of	yer ages	and the second	way to
Low human development	10	81	Pri-	40.4		,	1988	415	1997	415	2.9
140 Lao People's Dem. Rep.	44	81	4.8	10.1	287 ° 307	276 97	1997	307	1975	97	-5.1
141 Congo, Dem. Rep. of the	to	14	Ber	Th (II		891	1990	1,240	1977	924°	-0.9
142 Sudan			2.2	2.4	1,065 430	287	1993	474	1980	363	-0.8
143 Togo	7.6	-0.5	3.2	2.4 8.8	153	151	1980	219	1997	219	1.7
144 Nepal	5.3	6.1	6.9		312 <sup>f</sup>	312	1980	571	1995	571 °	4.1
145 Bhutan	**	44	ptk	40							-0.5
146 Nigeria	8.5	2.4	4.0	6.3	349	260	1984	386	1977	315 209	-0.5
147 Madagascar	àn	84	84	40	324	208	1996	324	1975		
148 Yemen	40	\$46	34	- 44	H	460	1992	 540	1976	513	0.0
											U.U
149 Mauritania 150 Bangladesh	3.5 2.7	3.2	2.5 4.8	7.6 6.8	512 134	462 134	1975	218	1997	218	2.2

#### 7 Trends in human development and economic growth

GDP per capita (1987 US\$)

ann an adda											
growth		numan deve (HDI)	nortfall (1 - elopment in value %)	dex		Lowest value during	Year	Highest value during		40073	Average annual rate of change (%)
IDI rank	1975-80	1980-85	1985-90	1990-97	1975°	1975-97	Year	1975-97*	Year	1997°	1975-97
151 Zambia	2.5	3,0	-4.4	-5.4	438	281	1995	451	1976	300	-1.7
152 Haiti			40	41	353	254	1994	428	1980	258	-1.4
	2.7	3.9	3.7	5.6	716	624	1993	756	1976	674	-0.3
153 Senegal 154 Côte d'Ivoire	5.3	1.5	0.1	1.0	1,169	804	1994	1,399	1978	899	-1,2
155 Benin	5.2	4.3	1.0	7.2	316	311	1976	382	1986	371	0,7
									14	11	**
156 Tanzania, U. Rep. of	M	80	14	H	**	*1	**	44		10	
157 Djiboutl	81	14	-1.5	6.4	460 P	419	1986	602	1997	602	1,9
158 Uganda	44	7.0			155	134	1994	172	1979	166	0.3
159 Malawi	3.6	2.0	0.3	5.1				899	1988	662	-1.9
160 Angola	00	40	60	66	832 k	543	1994	633	1300		
161 Guinea	*1	10	ter .	7.0	386 ™	386	1986	447	1997	447	1,4
162 Chad	3.4	4,5	3.7	4.4	196	178	1976	284	1977	211	0.3
163 Gambia	4.5	4.2	3.2	5.8	259	250	1996	293	1981	256	-0.1
164 Rwanda	6.5	6.8	-15.3	8.5	247	168	1994	354	1983	222	-0.5
165 Central African Republic	2.9	3.4	0.3	-1,0	523	364	1993	547	1977	387	-1.4
166 Mali	3.7	2.2	4,2	8.3	239	234	1982	287	1979	271	0.6
167 Eritrea	96	M	14	40	40	46	н				0.3
168 Guinea-Bissau	-0.1	4.2	3.2	5,9	217	157	1980	234	1997	234	0.3
169 Mozambique	94	-1.2	5.6	1.1	165 <sup>f</sup>	115	1984	199	1997	199	1.1
170 Burundi	3.7	4.6	0.5	-3.0	179	160	1996	234	1991	162	-0.5
171 Burkina Faso	2.6	3.1	1.4	2.1	223	223	1975	290	1997	290	1.2
172 Ethlopia		н	3.2	2.4	179 P	131	1992	179	1983	171	-0.4
173 Niger	3.0	-0.2	2.1	2.1	391	269	1996	455	1979	269	-1.7
174 Sierra Leone	14	44	80	10	256	156	1995	260	1980	159 b	-2.2
								-			
If developing countries east developed countries	**	*	**	**		**	**	,	**	"	
ub-Saharan Africa	**	**	**	14	4.0	44	**		"		
rab States	"	**	"	**	**	**	**	**		*	
ast Asia	"	.,	41		**	**	**	**		*,	
ast Asia (excluding China)	**		**	**		15		**	**		
outh-East Asia and the Pacific		**	**	**	40	**		**	**	,	
outh Asia		•	**	**	40	**		**	**	**	
	"		**	**	+4	10	1+			,	
outh Asia (excluding India)		**	"	**	14	**		**	**	•	**
atin America and the Caribbean	**	**			**	**	**	**	**		
astern Europe and the CIS					**	es		**		**	
ndustrialized countries		**	1*	++	**		••	**	**		**
World				**						**	14

a. The earliest year for which data are given is 1975, and the latest year 1997, unless otherwise specified.

Source: Columns 1-4: Human Development Report Office calculations; columns 5-10: World Bank 1999b; column 11: calculated on the basis of data from World Bank 1999b.

b. 1996.

c. 1995.

d. 1994.

e. 1984.

f. 1980.

g. 1977.

h. 1987.

i. 1989.

j. 1978.

k. 1985.

l. 1981.

m. 1986.

n. 1979.

o. 1991.

p. 1983.

#### Technical note. Computing the indices

#### The human development index

The HDI is based on three indicators: longevity, as measured by life expectancy at birth; educational attainment, as measured by a combination of adult literacy (two-thirds weight) and the combined gross primary, secondary and tertiary enrolment ratio (one-third weight); and standard of living, as measured by real GDP per capita (PPP\$).

#### Fixed minimum and maximum values

To construct the index, fixed minimum and maximum values have been established for each of these indicators:

- Life expectancy at birth: 25 years and 85 years.
- Adult literacy rate: 0% and 100%.
- Combined gross enrolment ratio: 0% and 100%.
- Real GDP per capita (PPP\$): \$100 and \$40,000 (PPP\$).

For any component of the HDI individual indices can be computed according to the general formula:

$$Index = \frac{Actual x_i \text{ value } - \min \text{minimum } x_i \text{ value}}{Maximum x_i \text{ value } - \min \text{minimum } x_i \text{ value}}$$

If, for example, the life expectancy at birth in a country is 65 years, the index of life expectancy for this country would be:

Life expectancy index = 
$$\frac{65-25}{85-25} = \frac{40}{60} = 0.667$$

#### Treatment of income

Constructing the income index is a little more complex. Over the years the *Human Development Report* has used a particular formula to do this, explained below. This year a thorough review of the treatment of income in the HDI was done, based on the work of Anand and Sen (1999).

Income enters into the HDI as a surrogate for all the dimensions of human development not reflected in a long and healthy life and in knowledge—in a nutshell, it is a proxy for a decent standard of living. The basic approach in the treatment of income has been driven by the fact that achieving a respectable level of human development does not require unlimited income. To reflect this, income has always been discounted in calculating the HDI. The issue is, how should it be discounted, and at what level?

In previous years the practice was to discount income above the threshold level of the world average income, using the following formula:

$$W(y) = y^{\circ} \text{ for } 0 < y < y^{\circ}$$

$$= y^{\circ} + 2[(y - y^{\circ})^{1/2}] \text{ for } y^{\circ} < y < 2y^{\circ}$$

$$= y^{\circ} + 2(y^{\circ 1/2}) + 3[(y - 2y^{\circ})^{1/3}] \text{ for } 2y^{\circ} < y < 3y^{\circ}$$

where y is the actual per capita income in PPP\$ and  $y^*$  is the threshold per capita income (PPP\$) at the world average income in the year for which the HDI is constructed. The world average income was taken as the threshold income on the premise that each person should have the income that the world on average enjoys.

To calculate the discounted value of the maximum income of \$40,000 (PPP\$), the following formula was used:

$$W(y) = y^{\circ} + 2(y^{\circ 1/2}) + 3(y^{\circ 1/2}) + 4(y^{\circ 1/4}) + 5(y^{\circ 1/5}) + 6(y^{\circ 1/6}) + 7[(40,000 - 6y^{\circ})^{1/2}]$$

This is because \$40,000 (PPP\$) is between 6y° and 7y°. With the above formula, the discounted value of the maximum income of \$40,000 (PPP\$) is \$6,311 (PPP\$).

The main problem with this formula is that it discounts the income above the threshold level very heavily, penalizing the countries in which income exceeds the threshold level. It reduces the \$34,000 (PPP\$) between the threshold and maximum

level of income to a mere \$321 (PPP\$). In many cases income loses its relevance as a proxy for all dimensions of human development other than a long and healthy life and knowledge.

This year's refinement in the treatment of income attempts to rectify this problem by putting the methodology on a more solid analytical foundation. The rationale and the formula adopted in the refinement are discussed in detail in Anand and Sen (1999). To summarize, in the construction of this year's HDI, income is treated using the following formula:

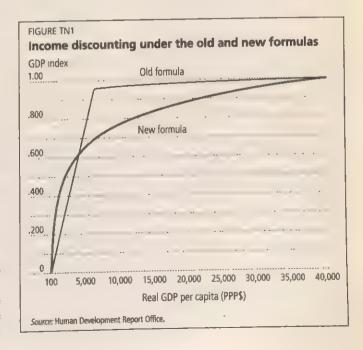
$$W(y) = \frac{\log y - \log y_{\min}}{\log y_{\max} - \log y_{\min}}$$

There are several advantages to this formula. First, it does not discount income as severely as the formula used earlier (technical note figure 1). Second, it discounts all income, not just the income above a certain level. Third, as the figure shows, the asymptote starts quite late, so middle-income countries are not penalized unduly; moreover, as income rises further in these countries, they will continue to receive recognition for their increasing income as a potential means for further human development.

#### Illustration of the HDI methodology

The construction of the HDI is illustrated with two examples—Germany and China, an industrialized and a developing country.

Country	Life	Adult	Combined gross	Real GDP
	expectancy	literacy rate	enrolment ratio	per capita
	(years)	(%)	(%)	(PPP\$)
Germany	77.2	99.0	88.1	21,260
China	69.8	82.9	68.9	3,130



Life expectancy index

Germany = 
$$\frac{77.2 - 25}{85 - 25} = \frac{52.2}{60} = 0.870$$

China = 
$$\frac{69.8 - 25}{85 - 25} = \frac{44.8}{60} = 0.747$$

Adult literacy index

Germany = 
$$\frac{99.0 - 0}{100 - 0} = \frac{99.0}{100} = 0.990$$

China 
$$\approx \frac{82.9 - 0}{100 - 0} = \frac{82.9}{100} = 0.829$$

Combined gross enrolment index

Germany 
$$=$$
  $\begin{array}{c} 88.1 - 0 \\ 100 - 0 \end{array} = 0.881$ 

$$China = \begin{array}{c} 68.9 - 0 \\ 100 - 0 \end{array} = 0.689$$

Educational attainment index

Germany = [2(0.990) + 1(0.881)]/3 = 0.954

China = [2(0.829) + 1(0.689)]/3 = 0.782

Adjusted real GDP per capita (PPP\$) index

Germany = 
$$\frac{\log (21,260) - \log (100)}{\log (40,000) - \log (100)} = 0.895$$

China = 
$$\frac{\log (3,130) - \log (100)}{\log (40,000) - \log (100)} = 0.575$$

#### Human development index

The HDI is a simple average of the life expectancy index, educational attainment index and adjusted real GDP per capita (PPP\$) index, and so is derived by dividing the sum of these three indices by 3.

Country	Life expectancy index	Educational attainment index	Adjusted real GDP (PPP\$) index	Sum of the three indices	HDI
Germany	0.870	0.954	0.895	2.719	0.906
China	0.747	0.782	0.575	2.104	0.701

#### Comparing HDI values across years

The HDI values in this year's Report are not strictly comparable with those in last year's because of the change in the treatment of income in the HDI. Comparability is also affected by significant revision in the data series for some indicators, particularly the income data (PPP\$) from the World Bank. As a result of these changes, both HDI values and rankings for many countries this year differ considerably from those in last year's Report. Technical note table 1 shows the changes in countries' HDI rankings and the source of those changes—whether refinement of the treatment of income or revision of data.

The table makes two clear points. First, most of the changes in HDI rankings can be attributed to the changes in the treatment of income. Second, although a simple comparison of the HDI values in last year's Report with those in this year's shows an apparent deterioration, a comparison using the new treatment of income in both cases shows an improvement in the HDI value for every country.

### The gender-related development index and the gender empowerment measure

For comparisons among countries the GDI and the GEM are limited to data widely available in international data sets. For this year's Report we have endeavoured to use the most recent, reliable and internally consistent data. Collecting more extensive and more reliable gender-disaggregated data is a challenge that the international community should squarely face. We continue to publish results on the GDI and the GEM—based on the best available estimates—in the expectation that it will help increase the demand for such data.

#### The gender-related development index

The GDI uses the same variables as the HDI. The difference is that the GDI adjusts the average achievement of each country in life expectancy, educational attainment and income in accordance with the disparity in achievement between women and men. (For a detailed explanation of the GDI methodology see technical note 1 in Human Development Report 1995.) For this gender-sensitive adjustment we use a weighting formula that expresses a moderate aversion to inequality, setting the weighting parameter,  $\epsilon$ , equal to 2. This is the harmonic mean of the male and female values.

The GDI also adjusts the maximum and minimum values for life expectancy, to account for the fact that women tend to live longer than men. For women the maximum value is 87.5 years and the minimum value 27.5 years; for men the corresponding values are 82.5 and 22.5 years.

Calculating the index for income is fairly complex. Values of real per capita GDP (PPP\$) for women and men are calculated from the female share  $(s_g)$  and male share  $(s_m)$  of earned income. These shares, in turn, are estimated from the ratio of the female wage  $(w_g)$  to the male wage  $(w_m)$  and the percentage shares of women  $(ea_g)$  and men  $(ea_m)$  in the economically active population. When data on the wage ratio are not available, a value of 75%, the weighted mean of the wage ratios for all countries with wage data, is used. The estimates of female and male per capita income (PPP\$) are treated in the same way as income is treated in the HDI and then used to compute the equally distributed income index.

Female share of the wage bill = 
$$\frac{(w_f/w_m) \times ea_f}{[(w_f/w_m) \times ea_f] + ea_m}$$

Assuming that the female share of earned income is exactly equal to the female share of the wage bill,

$$s_f = \frac{(w_f/w_m) \times ea_f}{[(w_f/w_m) \times ea_f] + ea_m}$$

If it is now assumed that the total GDP (PPP\$) of a country (Y) is also divided between women and men according to  $s_f$ , the total GDP (PPP\$) going to women is given by  $(s_f \times Y)$  and the total GDP (PPP\$) to men by  $[Y - (s_f \times Y)]$ .

Per capita GDP (PPP\$) of women is  $y_f = s_f \times Y/N_f$ , where  $N_f$  is the total female population.

Per capita GDP (PPP\$) of men is  $y_m = [Y - (s_f \times Y)]/N_m$ , where  $N_m$  is the total male population.

Treating income the same way as in the construction of the HDI, the adjusted income for women,  $W(y_i)$ , is given by:

$$W(y_f) = \frac{\log y_f - \log y_{\min}}{\log y_{\max} - \log y_{\min}}$$

The adjusted income for men,  $W(y_{-})$ , is given by:

$$W(y_m) = \frac{\log y_m - \log y_{\min}}{\log y_{\max} - \log y_{\min}}$$

The equally distributed income index is given by:

{[female population share × (adjusted female per capita PPP\$ GDP)-1] + [male population share × (adjusted male per capita PPP\$ GDP)-11}-1

The indices for life expectancy, educational attainment and income are added together with equal weight to derive the final GDI value.

#### Illustration of the GDI methodology

We choose Cameroon to illustrate the steps for calculating the gender-related development index. The parameter of inequality aversion, €, equals 2. (Any discrepancies in results are due to numbers' being rounded up.)

Population (millions)

Total 13.924 Females 7.009 Males 6.915

Percentage share of population

Females 50.3 Males 49.7

STEP ONE

Computing the equally distributed life expectancy index

Life expectancy at birth (years)

Females 56.0 Males 53.4

Life expectancy index

Females (56.0 - 27.5)/60 = 0.476Males (53.4 - 22.5)/60 = 0.516

Equally distributed life expectancy index

[[female population share × (female life expectancy index)-1] + [male population share × (male life expectancy index)-1]]-1
[0.503(0.476)-1 + 0.497(0.516)-1]-1 = 0.495

STEP TWO

Computing the equally distributed educational attainment index

Adult literacy rate (percent)

Females 64.6 Males 79.0

Adult literacy index

Females (64.6 - 0)/100 = 0.646Males (79.0 - 0)/100 = 0.790

Combined gross enrolment ratio (percent)

Females 39.2 Males 47.6

Combined gross enrolment index

Females (39.2 - 0)/100 = 0.392Males (47.6 - 0)/100 = 0.476

Educational attainment index

2/3(adult literacy index) + 1/3(combined gross enrolment index)

Females 2/3(0.646) + 1/3(0.392) = 0.561Males 2/3(0.790) + 1/3(0.476) = 0.685 Equally distributed educational attainment index

{[female population share  $\times$  (educational attainment index)<sup>-1</sup>] + [male population share  $\times$  (educational attainment index)<sup>-1</sup>]}<sup>-1</sup>

 $[0.503(0.561)^{-1} + 0.497(0.685)^{-1}]^{-1} = 0.616$ 

STEP THREE

Computing the equally distributed income index

Percentage share of the economically active population

Females  $(ea_f)$  38.3 Males  $(ea_m)$  61.7

Ratio of female non-agricultural wage to male non-agricultural wage (w<sub>e</sub>/w<sub>m</sub>): 0.750

GDP per capita: \$1,890 (PPP\$)

Total GDP (PPP\$): \$1,890 × 13.924 million = \$26,316 million (PPP\$)

 $s_f = \frac{0.750 \times 0.383}{(0.750 \times 0.383) + 0.617}$ 

0.287 0.287 + 0.617

= 0.318

Female total GDP (PPP\$) = 0.318 × \$26,316 million (PPP\$) = \$8,368 million (PPP\$)

Male total GDP (PPP\$) = \$26,316 million (PPP\$) - \$8,368 million (PPP\$)

= \$17,948 million (PPP\$)

Per capita female GDP (PPP\$) = \$8,368 million/7.009 million = \$1,194 (PPP\$)
Per capita male GDP (PPP\$) = \$17,948 million/6.915 million = \$2,596 (PPP\$)

 $W(y_f) = [\log (1,194) - \log (100)]/[\log (40,000) - \log (100)]$  = (3.076 - 2.000)/(4.602 - 2.000) = 1.076/2.602 = 0.414

 $W(y_m) = [\log (2.596) - \log (100)]/[\log (40,000) - \log (100)]$  = (3.415 - 2.000)/(4.602 - 2.000) = 1.415/2.602 = 0.544

Equally distributed income index

(|female population share  $\times [W(y_f)]^{-1}$  + {male population share  $\times [W(y_m)]^{-1}$ })<sup>-1</sup> [0.503  $\times$  (0.414)<sup>-1</sup> + 0.497  $\times$  (0.544)<sup>-1</sup>]<sup>-1</sup>

 $= [0.503 \times 2.415 + 0.497 \times 1.838]^{-1}$ 

 $= [2.128]^{-1}$ = 0.469

STEP POUR

Computing the GDI

1/3(0.495 + 0.616 + 0.469) = 0.527

The gender empowerment measure

The GEM uses variables constructed explicitly to measure the relative empowerment of women and men in political and economic spheres of activity.

The first two variables are chosen to reflect economic participation and decision-making power: women's and men's percentage shares of administrative and managerial positions and their percentage shares of professional and technical jobs. These are broad, loosely defined occupational categories. Because the relevant population for each is different, we calculate a separate index for each and then add the two together.

The third variable, women's and men's percentage shares of parliamentary seats, is chosen to reflect political participation and decision-making power.

For all three of these variables we use the methodology of population-weighted  $(1-\epsilon)$  averaging to derive an "equally distributed equivalent percentage" (EDEP) for both sexes taken together. Each variable is indexed by dividing the EDEP by 50%.

An income variable is used to reflect power over economic resources. It is calculated in the same way as for the GDI except that unadjusted rather than adjusted real GDP per capita is used.

The three indices—for economic participation and decision-making, political participation and decision-making, and power over economic resources—are added together to derive the final GEM value.

#### Illustration of the GEM methodology

We choose Algeria to illustrate the steps in calculating the GEM. The parameter of inequality aversion, ∈, equals 2. (Any discrepancies in results are due to numbers' being rounded up.)

Population (millions)

 Total
 29.394

 Females
 14.518

 Males
 14.876

Percentage share of population

Females 49.39 Males 50.61

STEP ONE

Calculating indices for parliamentary representation and administrative and managerial, and professional and technical, positions

Percentage share of parliamentary representation

Females 3.82 Males 96.18

Percentage share of administrative and managerial positions

Females 5.9 Males 94.1

Percentage share of professional and technical positions

Females 27.6 Males 72.4

Calculating the EDEP for parliamentary representation

 $[0.494(3.82)^{-1} + 0.506(96.18)^{-1}]^{-1} = 7.4$ 

Calculating the EDEP for administrative and managerial positions

 $[0.494(5.9)^{-1} + 0.506(94.1)^{-1}]^{-1} = 11.2$ 

Calculating the EDEP for professional and technical positions

 $[0.494(27.6)^{-1} + 0.506(72.4)^{-1}]^{-1} = 40.2$ 

Indexing parliamentary representation

7.4/50 = 0.149

Indexing administrative and managerial positions

11.2/50 = 0.224

Indexing professional and technical positions

40.2/50 = 0.804

Combining the indices for administrative and managerial, and professional and technical, positions

(0.224 + 0.804)/2 = 0.514

STEP TWO

Calculating the index for female and male income

Percentage share of the economically active population

Females (ea<sub>f</sub>) 26.2 Males (ea<sub>m</sub>) 73.8

Ratio of female non-agricultural wage to male non-agricultural wage  $(w_t/w_m)$ : 0.750

Per capita GDP (PPP\$): \$4,460 (PPP\$)

Total GDP (PPP\$): \$4,460 × 29.394 million = \$131,097 million (PPP\$)

$$s_f \doteq \frac{0.750 \times 0.262}{(0.750 \times 0.262) + 0.738}$$
$$= \frac{0.197}{0.197 + 0.738}$$
$$= 0.210$$

Female total GDP (PPP\$) = 0.210 × \$131,097 million (PPP\$) = \$27,530 million (PPP\$)

Male total GDP (PPP\$) = \$131,097 million (PPP\$) - \$27,530 million (PPP\$) = \$103,567 million (PPP\$)

Per capita female GDP (PPP\$) = \$27,530 million/14.518 million = \$1,896 (PPP\$) Per capita male GDP (PPP\$) = \$103,567 million/14.876 million = \$6,962 (PPP\$)

Index of female per capita GDP = 
$$\frac{1,896 - 100}{40,000 - 100}$$

Index of male per capita GDP = 
$$\frac{6,962 - 100}{40,000 - 100}$$

$$=\frac{6,862}{39,900}$$
$$=0.172$$

39,900

Calculating the equally distributed income index  $[0.494(0.045)^{-1} + 0.506(0.172)^{-1}]^{-1} = 0.072$ 

STEP THREE

Computing the GEM

1/3(0.149 + 0.514 + 0.072)

= [1/3(0.735)]

= 0.245

#### The human poverty index

#### Computing the human poverty index for developing countries

The human poverty index for developing countries (HPI-1) concentrates on deprivations in three essential dimensions of human life already reflected in the HDI—longevity, knowledge and a decent standard of living. The first deprivation relates to survival—vulnerability to death at a relatively early age. The second relates to knowledge—being excluded from the world of reading and communication. The third relates to a decent living standard in terms of overall economic provisioning.

In constructing the HPI-1, the deprivation in longevity is represented by the percentage of people not expected to survive to age 40  $(P_1)$ , and the deprivation in knowledge by the percentage of adults who are illiterate  $(P_2)$ . The deprivation in living standard is represented by a composite  $(P_3)$  of three variables—the percentage of people without access to safe water  $(P_{31})$ , the percentage of people without access to health services  $(P_{32})$  and the percentage of moderately and severely underweight children under five  $(P_{31})$ .

The composite variable  $P_3$  is constructed by taking a simple average of the three variables  $P_{33}$ ,  $P_{32}$  and  $P_{33}$ . Thus

$$P_3 = \frac{(P_{31} + P_{32} + P_{33})}{3}$$

Following technical note 1 in *Human Development Report* 1997, the formula for the HPI-1 is given by:

HPI-1 = 
$$[1/3(P_1^3 + P_2^3 + P_3^3)]^{1/3}$$

As an example, we compute the HPI-1 for Panama.

Country	P <sub>1</sub> (%)	P <sub>2</sub> (%)	<i>P</i> <sub>31</sub> (%)	P <sub>32</sub> (%)	P <sub>33</sub> (%)
Panama	6.4	8.9	7.0	18.0	7.0

STEP ONE Calculating P.

$$P_3 = \frac{7 + 18 + 7}{3} = \frac{32}{3} = 10.7$$

STEP TWO

Constructing the HPI-1

HPI-1 = 
$$[1/3(6.4^3 + 8.9^3 + 10.7^3)]^{1/3}$$
  
=  $[1/3(262.144 + 704.97 + 1,225.04)]^{1/3}$   
=  $[1/3(2,192.15)]^{1/3}$   
=  $730.72^{1/3}$   
=  $9.0$ 

#### Computing the human poverty index for industrialized countries

The human poverty index for industrialized countries (HPI-2) concentrates on deprivations in four dimensions of human life, quite similar to those reflected in the HDI—longevity, knowledge, a decent standard of living and social exclusion. The first deprivation relates to survival—vulnerability to death at a relatively early age. The second relates to knowledge—being deprived of the world of reading and communication. The third relates to a decent standard of living in terms of overall economic provisioning. And the fourth relates to non-participation or exclusion.

In constructing the HPI-2, the deprivation in longevity is represented by the percentage of people not expected to survive to age 60  $(P_1)$ , and the deprivation in knowledge by the percentage of people who are functionally illiterate as defined by the OECD  $(P_2)$ . The deprivation in standard of living is represented by the percentage of people living below the income poverty line, set at 50% of the median dispos-

able personal income  $(P_3)$ . And the fourth deprivation, in non-participation or exclusion, is measured by the rate of long-term (12 months or more) unemployment  $(P_4)$  of the labour force.

Following technical note 1 in *Human Development Report 1997*, the formula for the HPI-2 is given by:

HPI-2 = 
$$[1/4(P_1^3 + P_2^3 + P_3^3 + P_4^3)]^{1/3}$$

As an example, we compute the HPI-2 for the United States.

Country	P <sub>1</sub> (%)	P <sub>2</sub> (%)	P <sub>3</sub> (%)	P <sub>4</sub> (%)
United States	12.6	20.7	19.1	0.5

#### Constructing the HPI-2

HPI-2 = 
$$[1/4(12.6^3 + 20.7^3 + 19.1^3 + 0.5^3)]^{1/3}$$
  
=  $[1/4(2,000.4 + 8,869.7 + 6,967.9 + 0.125)]^{1/3}$   
=  $[1/4(17,838.1)]^{1/3}$   
=  $4,459.5^{1/3}$   
=  $16.5$ 



Human development in rank index (HDI) value Rank changes between Rank changes due to revised data \* 1998 Report due to 1998 refined Life Adult Gross Income and 1999 New Old 1999 (PPP\$) methodology literacy enrolment formula b Reports d expectancy Report c HDI rank formula 0 0 0 0 0.960 0.932 0 a 1 Canada 0.929 0 0 0 3 2 Norway 0.916 0.943 0.927 0 9 0 -9 3 United States 0.923 0.943 0.927 0 0 0 ā 4 Japan 0.918 0.940 0.924 4 Ð 0 0 5 Belgium 0.933 0.923 7 -1 4 0 0 8 0 -4 0.917 0.936 0.923 6 Sweden 0.919 0.932 0.922 8 -1 0 0 -4 7 Australia 0.921 -1 2 0 0 -4 8 Netherlands 0.917 0.941 9 Iceland 0.908 0.942 0.919 4 -2 0 -3 -1 0.913 0.932 0.918 4 0 0 0 -3 10 United Kingdom 0.946 -9 0 -3 0 -2 11 France 0.913 0.918 -4 o 0.930 4 0 -1 4 0.914 12 Switzerland 13 Finland 0.905 0.942 0.913 -7 2 ō. -7 1 -3 14 Germany 0.925 0.906 5 0 0 Δ 0 15 Denmark 0.900 0.928 0.905 3 0 0 -2 0 5 0 0 2 0.933 0.904 -3 16 Austria 0.901 -6 17 Luxembourg 0.902 9 0 8 0.900 0 -1 18 New Zealand 0.898 0.939 0.901 .9 0 0 -5 0 ·d 19 Italy 0.892 -2 0.922 0.900 2 0 0 4 0 20 Ireland 0.890 0 -1 0.930 0.900 -3 0 -2 0 21 Spain 0.889 0.935 0.894 -10 0 0 -3 0 -7 22 Singapore 0.873 0.896 0.888 6 -2 -1 ٥ 8 23 Israel 0.913 0.883 -1 -1 0 2 -1 -1 24 Hong Kong, China (SAR) 0.875 0.909 0.880 0 -3 5 0 -1 25 Brunei Darussalam 0.889 0.878 10 -2 -4 -1 13 4 26 Cyprus 0.913 0.870 -3 Ò 0 -3 -1 27 Greece 0.859 0.924 0.867 -7 ٥ 0 -6 -2 1 28 Portugal 0.850 0.892 0.858 5 0 2 â 29 Barbados 0.909 0.857 -5 0 0 -1 1 30 Korea, Rep. of 0.835 0.894 0.852 0 2 -3 2 31 Bahamas 0.893 5 0.851 3 -8 0 32 Malta 0.899 0.850 -5 0 -4 0 0 -1 33 Slovenia 0.887 0.845 0 -2 4 4 5 -3 34 Chile 0.893 0.844 -2 -3 -3 0 2 0 35 Kuwait 0.848 0.833 19 14 0 2 2 36 Czech Republic 0.884 3 0.833 4 -1 3 0 -3 37 Bahrain 0.872 0.832 6 0 0 -2 7 38 Antigua and Barbuda 0.895 0.828 .9 -2 -1 -2 -1 -3 39 Argentina 0.821 0.888 0.827 -3 -2 0 0 -2 1 40 Uruguay 0.816 0.885 0.826 2 -2 1 0 1 -6 41 Oatar 0.840 0.814 16 11 0 -1 5 42 Slovakia 0.802 0.875 0.813 0 3 0 Û 0 -3 43 United Arab Emirates 0.804 0.855 0.812 5 8 -2 -4 0 3 44 Poland 0.792 0.851 0.802 8 3 Ö 10 -4 45 Costa Rica 0.800 0.889 0.801 -11 -6 -4 0 -2 1 46 Trinidad and Tobago 0.792 0.880 0.797 -6 -2 0 -4 -1 47 Hungary 0.857 0.795 D -4 0 3 Ū 48 Venezuela 0.787 0.860 0.792 -2 -1 -2 0 0 1 49 Panama 0.868 0.791 -4 0 0 -4 -1 1 50 Mexico 0.855 0.786 -1 -2 1 2 -3

Difference

TN1 Changes in HDI values and ranks

	i	man developm ndex (HDI) valu		Difference in rank between					Rank change
		Report		1998			e to revised da		due to
DI rank	New formula	Old formula <sup>b</sup>	1999 Report <sup>c</sup>	and 1999 Reports <sup>d</sup>	Life expectancy	Adult literacy	Gross enrolment	(PPP\$)	refined methodolog
51 Saint Kitts and Nevis	**	0.854	0.781	-1	2	0	0	0	-3
52 Grenada	F*	0.851	0.777	ત્ર	-1	-3	Ō	-7	10
53 Dominica		0.879	0,776	-12	Ö	0	1	-30	17
54 Estonia	0.761	0.758	0.773	22	-1	ō	1	17	5
55 Croatia		0.759	0.773	20	ó	-1	-2	15	8
	0.755	0.834	0.768	4	2	1	1	3	-3
56 Malaysia		0.850		-4	-2	2	1	2	-3 -7
57 Colombia	40		0.768			0	1	4	26
58 Cuba	0.757	0.729	0.765	26	-2	1	1	4	-3
59 Mauritius	0.752	0.833	0.764	2	1	-	-1	5	-3 6
60 Belarus	0.757	0.783	0.763	6	-2	-1	0		
61 Fiji	0.757	0.869	0.763	-17	0	0	0	-32	15
62 Lithuania	0.752	0.750	0.761	16	-4	1	2	6	11
63 Bulgaria	0.767	0.789	0.758	4	0	-1	2	-13	16
64 Suriname	10	0.796	0.757	1	-1	-1	0	2	1
65 Libyan Arab Jamahiriya	84	0.806	0.756	-1	5	3	4 1	5	-11
66 Seychelles		0.845	0.755	-10	-4	-5	0	4	-8
67 Thailand	0.746	0.838	0.753	-8	-2	1	2	3	-12
				6	1	-2	Ź	-2	7
68 Romania	0.740	0.767	0.752	-3	1	-5	0	13	-12
69 Lebanon	B.P.	0.796	0.749	23	4	0	-2	6	15
70 Samoa (Western)	6-2	0.694	0.747	43	*				
71 Russian Federation	0.747	0.769	0.747	1	1	-1	-2	-3	6
72 Ecuador	0.740	0.767	0.747	1	-1	0	-1	4	-1
73 Macedonia, TFYR	95	0.749	0.746	6	1	-1	2	-12	16
74 Latvia	0.735	0.704	0.744	17	0	0	1	7	9
75 Saint Vincent and the Grenadines	45	0.845	0.744	-20	1	2	-1	-27	5
76 Kazakhstan		0.695	0.740	16	0	0	-1	6	11
	0.728	0.677	0.740	20	2	0	Ö	7	11
77 Philippines		0.778	0.740	-8	1	4	0	1	-14
78 Saudi Arabia	0.733	0.809	0.739	-17	-1	-1	1	3	-19
79 Brazil	0.728	0.729	0.739	5	Ö	Ö	-1	12	-6
80 Peru	0.731								
81 Saint Lucia	**	0.839	0.737	-23	-4	1	0	-6	-14
82 Jamaica	41.	0.735	0.734	1	0	0	-1	-6	8
83 Belize	44	0.807	0.732	-20	-1	1	-1	-18	-1
84 Paraguay	0.724	0.707	0.730	6	0	0	1	3	2 18
85 Georgia	10	0.633	0.729	22	0	-1	1	4	and and an
86 Turkey		0.782	0.728	-17	1	-1	0	8	-25
87 Armenia	s.y	0.674	0.728	11	0	0	-3	3	- 11
88 Dominican Republic	0.713	0.720	0.726	-1	0	0	-1	10	-10
89 Oman		0.720	0.725	-18	-1	6	-2	-1	-20
90 Sri Lanka	0.714	0.716	0.721	-1	1	0	1	-14	11
Type Control of the State of th	17/ 7/14	, ,, ,			1	0	0	-4	13
91 Ukraine	84	0.665	0.721	10		-1	1	3	8
92 Uzbekistan	U.S.	0.659	0.720	11	0	0	1	1	-2
93 Maldives	14	0.683	0.716	1	*	0	1	_g	-2
94 Jordan	н	0.729	0.715	-8	2	3	1	4	-27
95 Iran, Islamic Rep. of	at	0.758	0.715	-18	1	3	1 . 4		
96 Turkmenistan		0.660	0.712	6	- 0	-1	-1	-1	9
97 Kyrgyzstan	25	0.633	0.702	11	2	-1	-1	2	9
98 China	0.680	0.650	0.701	7	0	0	0	6	1
99 Guyana		0.670	0.701	0	2	0	-2	2	-2
100 Albania	0.693	0.656	0.699	4 .	5 .	-2	. 3	10	8

## TN1 Changes in HD1 values and ranks

1998 F New formula			between	min B		e to revised da		Rank changes	
	1998 Report		1998	Rank	due to				
	Old formula <sup>b</sup>	1999 Report <sup>c</sup>	and 1999 Reports <sup>d</sup>	Life expectancy	Adult literacy	Gross enrolment	(PPP\$)	refined methodology	
0.704	0.717	0.695	-13	-13	2	3	24	-29	
				1	1	-1	0	-21	
			6	-1	0	-2	-1	10	
				0	-3	2	-3	12	
			-10	1	0	0	-8	-3	
		0.677	10	5	-2	3	3	1	
0.000								3	
94								10	
				1	~	_		-14	
				,				7	
778									
, an				1	1			-2	
				-1	· ·			2	
		0.644	1	1				-1	
0.635		0.641	4	0			-	6	
0.656	0.644	0.638	9	-2	2	0	10	-19	
43	0.559	0.627	7	3	0.	-3	8	-1	
								-6	
				i			1	3	
				À			-29	7	
								-1	
0.000									
0.000					_	_	1	3	
0.632						_		-29	
49						0		2	
49						1		-30	
47	0.538	0.586	1	3	-1	0	1	-2	
0.569	0.557	0.582	-2	2	3	0	-3	-4	
0.582	0.469	0.582	6		3	0		1	
ga.	0.481	0.580	2		-2	3		2	
44	0.507	0.570	-1	1				-2	
0.570	0.507	0.560	-1	-2	0	0	2	-1	
	0.465	0.540	2	4	2	n		0	
								0	
				3	_	_		0	
			,					0	
								0	
						0			
			0	-2	0	0	2	0	
0.405						0		0	
			-1		-1	0	-2	0	
			1	0	0	0	1	0	
0.4/5	U.465	0.491	-5		0	0	-6	0	
**	0.383	0.479	1	-2	-3	-1	6	1	
ân	0.343	0.475	14	5	6	0	4	-1	
0.458	0.380	0.469	0	-3	0	0	3	0	
0.447	0.351	0.463	7	1	7	1	-2	0	
p4	0.347	0.459	9	13	0	-2	-2	0	
0.446	0.391		.E			4		0	
						1		0	
				4		4			
				1		1		1	
								-2 0	
	0.676 0.689 0.665 0.660 0.655 0.642 0.634 0.635 0.656 0.617 0.603 0.632 0.569 0.582 0.570 0.534 0.532 0.527 0.528 0.495 0.504 0.475 0.458 0.447	0.676	0.676	0.676	0.676	0.676	0.676	0.676  0.744  0.695  -20  1  1  1  -1  0  0.689  0.623  0.695  6  -1  0  -2  -1  3  0.695  6  -1  0  -2  -1  3  0.665  0.679  0.681  -10  1  0  0  -3  2  -3  0.665  0.679  0.681  -10  1  0  0  -3  2  -3  3  0.665  0.679  0.681  -10  1  0  0  0  -8  0.665  0.679  0.681  -10  1  0  0  0  -8  0.666  0.591  0.677  10  5  -2  3  3  3  0.604  0.674  6  -2  4  0  1  1  0  0  0  -1  0.575  0.665  9  0  0  0  0  0  -1  0.575  0.665  9  0  0  0  0  0  -1  0.655  0.746  0.665  -28  1  -2  0  -1  3  0.665  0.666  11  2  -4  5  1  1  0  0.662  0.664  11  2  -4  5  1  1  1  1  -2  -29  0.642  0.593  0.652  3  -1  0  0  0  2  0.624  0.593  0.654  11  1  1  -1  1  1  3  0.635  0.573  0.641  4  0  0  0  -2  0  0.656  0.644  0.638  -9  -2  2  0  10  0.656  0.644  0.638  -9  -2  2  0  10  0.655  0.644  0.638  -9  -2  2  0  10  0.656  0.644  0.638  -9  -2  2  0  10  0.656  0.624  0.638  -9  -2  2  0  10  0.656  0.624  0.638  -9  -2  2  0  10  0.656  0.624  0.638  -9  -2  2  0  10  0.656  0.624  0.638  -9  -2  2  0  0  10  0.656  0.624  0.638  -9  -2  2  0  0.603  0.612  0.606  0.618  -19  4  0  0  -1  1  1  1  1  -2  0.603  0.612  0.616  -9  2  0  0  0  10  0.609  0.618  -19  4  0  0  1  1  0.669  0.618  -19  4  0  0  1  1  0.669  0.618  -19  4  0  0  0  1  1  0.669  0.618  0.609  -3  60  0  0  1  1  0.652  0.665  0.664  0.616  -9  2  0  0  0  10  0.608  0.609  -3  60  0  0  1  1  0.669  0.658  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  1  1  0.568  0.609  -3  60  0  0  0  1  1  0.568  0.609  -3  60  0  0  0  1  1  0.568  0.609  -3  60  0  0  0  1  1  0.568  0.609  -3  60  0  0  0  1	

TN1 Changes in HDI values and ranks

		man developm ndex (HDI) valu		Difference in rank between					Rank changes
	1998 (	Report		1998	Rank	changes du	e to revised da	la *	due to
dD) rank	New formula	Old formula <sup>b</sup>	1999 Report <sup>c</sup>	and 1999 Reports <sup>d</sup>	Life expectancy	Adult literacy	Gross enrolment	(PPP\$)	refined methodology
151 Zambia	0.430	0.378	0.431	-6	-3	-4	-1	0	2
152 Haiti	0.426	0.340	0.430	6	1	-1	-1	5	2
153 Senegal	0.412	0.342	0.426	4	5	1	0	0	-2
154 Côte d'Ivoire	0.414	0.368	0.422	-7	-8	-1	1	3	-2
155 Benin	0.407	0.378	0.421	-11	-1	-5	1	-7	1
156 Tanzania	**	0.358	0.421	-7	-5	1	-1	-1	-1
157 Dirbouti	**	0.324	0.412	4	2	0	1	1	0
158 Uganda	0.386	0.340	0.404	1	1	1	0	-2	1
159 Malawi	0.397	0.334	0.399	1	-1	1	0	0	1
160 Angola		0.344	0.398	-5	-1	1	-1	-5	1
161 Guinea	0.383	0.277	0.398	5	1	2	1	4	-3
162 Chad	0.380	0.318	0.393	0	0	1	0	-2	1
163 Gambia	0.381	0.291	0.391	1	0	0	-1	3	-1
164 Rwanda	0.334	-	0.379	-	-	-	-		
165 Central African Republic	0.378	0.347	0.378	-11	-7	-2	-2	0	0
166 Mali	0.356	0.236	0.375	5	2	3	2	-2	0
167 Embea	**	0.275	0.346	1	1	0	0	0	0
168 Guinea-Rissau	0.331	0.295	0.343	-4	0	-5	0	0	1
169 Mozambique	0.340	0.281	0.341	-3	-2	0	0	0	-1
170 Burundi	0.321	0.241	0.324	0	0	0	0	0	0
171 Burkina Faso	0.297	0.219	0.304	1	-1	0	0	1	1
172 Ethiopia	0.287	0.252	0.298	-3	-2	0	0	0	-1
173 Niger	0.291	0.207	0.298	0	1	0	0	-1	0
174 Sierra Leone		0.185	0.254	0	0	0	0	0	0

a. See the note on statistics for an explanation of the data revisions.

b. Ranks have been recalculated to exclude the Democratic People's Republic of Korea, since that country is not included in the 1997 HDI ranking (published in this year's Report).

c. Ranks have been recalculated to exclude Rwanda, since that country is not included in the 1995 HDI ranking (published in last year's Report).

d. A positive figure indicates that the rank has improved, a negative the opposite.

Source: Human Development Report Office.

1) Maria Caraca, Andreas,	ati	Life expectancy at birth (years) 1970 1997		fant lity rate ) live births)	morta	er-five lity rate ) live births)	survive to age 60 (as % of total population)	Maternal mortality rate (per 100,000 live births)
HDI rank	1970	1997	1970	1997	1970	1997	1997	1990
High human development	70,6	77.0	25	7	32	8	11	26
1 Canada	72.6	79.0	19	6	23	7	9	6
2 Norway	74.1	78.1	13	4	15	4	9	б
3 United States 4 Japan	70.7 72.2	76.7 <b>8</b> 0.0	20 14	7	26 21	8 6	13	12
5 Belgium	71,1	77,2	21	. 6	29	7	8 10	18
6 Sweden	74.4	78.5	11	4	15	4	9	
7 Australia	71.1	78.2	17	5	20	6	9	7
8 Netherlands	73.7	77.9	13	5	15	6	9	12
9 Iceland	73.7	79.0	13	5	14	5	8	14
10 United Kingdom	71.7	77.2	18	6	23	7	10	9
11 France	71.9	78.1	18	5	24	5	11	15
12 Switzerland	72.9	78.6	15	5	18	5	10	6
13 Finland	70.1	76.8	13	4	16	4	11	11
14 Germany	70.8	77.2	22	5	26	5	11	22
15 Denmark	73.2	75.7	14	6	19	6	13	9
16 Austria	70,1	77.0	26	5	33	5	11	10
17 Luxembourg	70,3	76.7	19	5	26	7	11	44
18 New Zealand	71.4	76.9	17	7	20	7	11	25
19 Italy 20 Ireland	71.5 71.2	78.2 76.3	30	5	33	6	9	12
			20	6	27	7	10	10
21 Spain	72.2	78.0	27	5	34	5	10	7
22 Singapore 23 Israel	68.8 71.2	77.1 77.8	22	4	27	4	11	10
24 Hong Kong, China (SAR)	71,1	77.8 78.5	24	6	27	6	9	7
25 Brunei Darussalam	66.7	75.5	58	8	78	10	9 11	7
26 Cyprus	70.8	77.8						44
27 Greece	71.7	78.1	29 38	8	33	9	10	40
28 Portugal	67.1	75.3	53	7	54 62	8	9	10 15
29 Barbados	68.5	76.4	40	11	54	12	13 12	
30 Korea, Rep. of	60.1	72.4	43	6	54	6	17	130
31 Bahamas	66.2	73.8	38	18	49	21		
32 Malta	69.9	77.2	25	9	32	10	18 8	**
33 Slovenia	69.4	74.4	25	5	29	6	15	13
34 Chile	61.9	74.9	77	11	96	13	14	<b>6</b> 5
35 Kuwait	65.9	75.9	49	12	59	13	10	29
36 Czech Republic	69.9	73.9	21	6	24	7	14	15
37 Bahrain	61.8	72.9	67	18	93	22	15	94
38 Antigua and Barbuda	65.3	m The c	F-0	17	wh	21	14	4=
39 Argentina 40 Uruguay	66.3 68.5	72.9	59	21	71	24	17	100
		73.9	48	18	57	21	16	<b>8</b> 5
41 Qatar 42 Slovakia	60.9	71.7	71	16	93	20	16	
43 United Arab Emirates	70.2 60.7	73.0	25	10	29	11	16	9.0
44 Poland	70.2	74.8 72.5	61	9	83	10	11	26
45 Costa Rica	66.7	76.0	32 58	10 12	36	11	17	19
Medium human development	57.3	66.6	101	51	77 152	14	12	60 321
46 Trinidad and Tobago	65.5	73.8	49	15				
47 Hungary	69.3	70.9	36	10	57 39	17	15	90
48 Venezuela	64.7	72.4	47	21	61	11 25	22 17	30 120
49 Panama	65.1	73.6	48	18	71	20	15	55
50 Mexico	61.1							

People not expected to

survival	<b>Life exp</b> at b (yea	irth	mortal	ant ity rate live births)	mortal	er-five lity rate	People not expected to survive to age 60 (as % of total population)	Maternal mortality rate (per 100,000 live births)
HDI rank	1970	1997	1970	1997	1970	1997	1997	1990
51 Saint Kitts and Nevis	**	**	**	30 24	40	37 29	**	**
52 Grenada	**	**	**	17	en	20	**	**
53 Dominica	70 5	60.7	22	13	27	14	24	41
54 Estonia	70.5 69.1	68.7 72.6	34	15	42	9	16	
55 Croatia								
56 Malaysia	61.3	72.0	46	10	63	11	16	80
57 Colombia	60.8	70.4	70	25	113	30	21	100
58 Cuba	69.5	75.7	34	7	43	8	13	95
59 Mauritius	62.2	71.4	64	20	86	23	19	120
60 Belarus	71.0	68.0	23	14	28	18	26	37
61 Fiji	63.9	<b>72.</b> 7	50	20	61	24	15	ès
62 Lithuania	71.4	69.9	25	13	30	15	23	36
63 Bulgaria	71.3	71.1	28	16	32	19	18	27
64 Surname	63.3	70.1	52	24	65	30	20	e b
65 Libyan Arab Jamahiriya	51.5	70.0	105	22	160	25	20	220
	3113	, , , ,	,,	4.4		18		
66 Seychelles	90	41	P4	14	100	38	26	200
67 Thailand	58.3	68.8	74	31	102	26	21	130
68 Romania	68.5	69.9	46	22	57	37	19	300
69 Lebanon	64.1	69.9	40	30	50		18	
70 Samoa (Western)	56.7	71.3		**	**	81		**
71 Russian Federation	68.7	66.6	30	20	38	25	30	75
72 Ecuador	57.7	69.5	94	30	140	39	22	150
73 Macedonia, TFYR	66.3	73.1	85	20	120	23	14	**
74 Latvia	70.3	68.4	22	16	27	20	25	40
75 Saint Vincent and the Grenadines		94	47	18	40	21	**	**
			50	37	66	44	26	80
76 Kazakhstan	63.7	67.6	60	32	90	41	22	280
77 Philippines	56.9	68.3	118	24	185	28	17	130
78 Saudi Arabia	51.8	71.4	95	37	135	44	27	220
79 Brazil	58.7	66.8	115	44	178	56	23	280
80 Peru	53.5	68.3	113					
81 Saint Lucia	- 4+	94	ay	24		29	13	120
82 Jamaica	68.3	74.8	47	10	62	11		
83 Belize	66.4	74.7	56	35	77	43	14 20	160
84 Paraguay	65.4	69.6	57	27	76	33	18	33
85 Georgia	68.4	72.7	37	23	49	29		
86 Turkey	56.4	69.0	150	40	201	45	20	180
87 Armenia	71.9	70.5	24	25	30	30	20	50
88 Dominican Republic	58.4	70.6	91	44	128	53	19	110
89 Oman	46.9	70.9	126	15	200	18	18	190
90 Sri Lanka	64.5	73.1	65	17	100	19	15	140
				18	29	24	24	50
91 Ukraine	70.6	68.8	23	46	93	60	25	55
92 Uzbekistan	63.5	67.5	67	53	188	74	28	ha
93 Maldives	49.9	64.5	121	20	107	24	20	150
94 Jordan	54.0	70.1	77	32	208	35	21	120
95 Iran, Islamic Rep. of	54.5	69.2	133					55
96 Turkmenistan	60.0	65.4	82	57	120	78	28	
97 Kyrgyzstan	62.4	67.6	63	38	86	48	25	110 95
98 China	62.0	69.8	85	38	120	47	18	
99 Guyana	59.6	64.4	81	59	101	82	28	ć.
100 Albania	66.9	72.8	68	34	82	40	14	65

8 Progress in survival

	Life expectancy at birth (years)		morta	fant lity rate ) live births)	morta	er-five lity rate ) live births)	survive to age 60 (as % of total population)	Maternal mortality rate (per 100,000 live births) 1990	
HDI rank	1970	1997	1970	1997	1970	1997	1997	1990	
101 South Africa	52.8	54.7	80	49	108	65	51	230	
102 Tunisia	53.7	69.5	135	27	201	33	20		
103 Azerbaijan	68.4	69.9	42	34	54	45	22	170	
104 Moldova, Rep. of	64.6	67.5	48	25	63	31	26	22	
105 Indonesia	47.6	65.1	104	45	172	68	27	60 650	
106 Cape Verde	56.5	68.9	87	54				0.50	
107 El Salvador	57.4	69.1			123	73	21	**	
108 Tajikistan	62.7	67.2	105	31	160	36	23	300	
109 Algeria	53.0		78	56	111	76	25	130	
110 Viet Nam	48.9	68.9	123	34	192	39	19	160	
		67.4	112	32	157	43	24	160	
111 Syrian Arab Republic	55.5	68.9	90	27	129	33	21	180	
112 Bolivia	45.8	61,4	144	69	243	96	33	650	
113 Swaziland	45.9	60.2	140	66	209	94	35	84	
114 Honduras	52.4	69.4	116	36	170	45	23	220	
115 Namibia	47.5	52.4	104	58	155	75	52	370	
116 Vanuatu	52.5	67.4	107	20	100			2,4	
117 Guatemala	51.9	64.0	115	39 43	160	50	23		
118 Solomon Islands	60.2	71.7	71		168	55	31	200	
119 Mongolia	52.6	65.8		23	99	28	16	24	
120 Egypt	50.9		105	105	150	150	26	65	
		66.3	157	54	235	73	23	170	
121 Nicaragua	53.6	67.9	107	42	168	57	24	160	
122 Botswana	51,6	47.4	98	39	139	49	68	250	
123 São Tomé and Principe	10	41		61	99	78	44		
124 Gabon	44.0	52.4	140	85	232	145	49	500	
125 Iraq	54.9	62.4	90	94	127	122	32	310	
126 Morocco	51.6	66.6	120	58					
127 Lesotho	48.4	56.0	125		187	72	23	610	
128 Myanmar	48.7	60.1	123	95	190	137	43	610	
129 Papua New Guinea	46.4	57.9	90	81	179	114	33	580	
130 Zimbabwe	50.3	44.1	86	79	130	112	41	930	
				53	138	80	75	570	
131 Equatorial Guinea	39.8	50.0	165	109	281	172	49	8.5	
132 India	49.1	62.6	130	71	206	108	30	570	
133 Ghana	49.0	60.0	111	68	186	107	35	740	
134 Cameroon	44.3	54.7	127	64	215	99	46	550	
135 Congo	45.7	48.6	100	81	160	108	59	890	
136 Kenya	49.7	52.0	96	57	156				
137 Cambodia	43.9	53.4	155	106		87	56	650	
138 Pakistan	49.2	64.0	118	95	244	167	47	900	
139 Comoros	47.8	58.8	159	69	183	136	27	340	
Low human development	42.8	50.6	147		215	93	37	- 41	
140 Lao People's Dem. Rep.	40.2			106	241	169	52	1,057	
141 Congo, Dem. Rep. of the	45.1	53.2 50.8	145	99	218	122	45	650	
142 Sudan	42.6	55.0	147	128	245	207	52	870	
143 Togo	44.2		107	73	177	115	43	660	
144 Nepal	42.1	48.8	128	78	216	125	59	640	
145 Bhutan	42.2	57.3 60.7	156	75	234	104	39	1,500	
		60.7	156	87	267	121	34	1,600	
146 Nigeria	42.7	50.1	120	112	201	187	52	1,000	
147 Madagascar	45.0	57,5	184	96	285	158	39	490	
148 Yemen	40.9	58.0	175	76	303	100	38	1,400	
149 Mauritania	42.5	53.5	150	120	250	183	44	930	
150 Bangladesh	44.2	58.1	148	81		100	- Paris	230	

People not expected to

8 Progress in survival

. (yea 1970 46.3 47.4 40.6 44.2 42.5 45.3 40.0 46.3 40.2 37.0	40.1 53.7 52.3 46.7 53.4 47.9 50.4 39.6 39.3	1970 1970 109 148 164 160 149 129 160	1997 112 92 72 90 102 92	1970 181 221 279 240 252	1997 202 132 124 150	90 population) 1997 80 50 47 63	940 1,000 1,200
47.4 40.6 44.2 42.5 45.3 40.0 46.3 40.2 37.0	53.7 52.3 46.7 53.4 47.9 50.4 39.6	148 164 160 149 129 160	92 72 90 102	221 279 240 252	132 124 150	50 47	1,000
47.4 40.6 44.2 42.5 45.3 40.0 46.3 40.2 37.0	53.7 52.3 46.7 53.4 47.9 50.4 39.6	148 164 160 149 129 160	92 72 90 102	221 279 240 252	132 124 150	50 47	1,000
40.6 44.2 42.5 45.3 40.0 46.3 40.2 37.0	52.3 46.7 53.4 47.9 50.4 39.6	164 160 149 129 160	72 90 102 92	279 240 252	124 150	47	
44.2 42.5 45.3 40.0 46.3 40.2 37.0	46.7 53.4 47.9 50.4 39.6	160 149 129 160	90 102 92	240 252	150		1/200
42.5 45.3 40.0 46.3 40.2 37.0	53.4 47.9 50.4 39.6	149 129 160	102 92	252			810
45.3 40.0 46.3 40.2 37.0	47.9 50.4 39.6	129 160	92		167	46	990
40.0 46.3 40.2 37.0	50.4 39.6	160		240			770
46.3 40.2 37.0	39.6			218	143	61 49	
40.2 37.0			111	241	156	**	1 200
37.0	39.3	110	86	185	137	76 73	1,200 560
	45.5	189	135	330	215 <b>29</b> 2	73 . 54	1,500
200	46.5	179	170	301			·
36.5	46.5	197	126	345	201	54	1,600
38.0	47.2	149	118	252	198	56	1,500
36.0	47.0	183	66	319	87	54	1,100
44.4	40.5	124	105	210	170	71	1,300
42.3	44.9	149	113	248	173	65	700
41.9	53.3	221	145	391	239	43	1,200
43.3	50.8	150	73	225			1,400
36.0	45.0	186	130	316	220		910
41.9	45.2	163	130	281	208		1,500
43.7	42.4	135	106	228	176	68	1,300
39.3	44.4	163	110	278	169	64	930
	43.3	159	111	239			1,400
	48.5	191	191	320			1,200
34.4	37.2	206	182	363	316	70	1,800
***	CA 4	111	6/1	170	94	28	491
					162	50	1,041
					169	56	979
					70	26	396
					46	18	96
				59	20	16	114
				149	64	26	449
				207	106	30	551
				208	103	30	512
				124	41	22	191
				48	33	25	62
				26	7	11	13
				149	85	25	437
	42.3 41.9 43.3 36.0 41.9 43.7 39.3 40.0 38.3	42.3     44.9       41.9     53.3       43.3     50.8       36.0     45.0       41.9     45.2       43.7     42.4       39.3     44.4       40.0     43.3       38.3     48.5       34.4     37.2       54.5     64.4       43.4     51.7       44.1     48.9       50.6     65.1       62.0     70.0       61.0     72.8       51.0     65.9       49.0     62.7       48.8     63.0       60.1     69.5       68.8     68.6       71.4     77.7	42.3       44.9       149         41.9       53.3       221         43.3       50.8       150         36.0       45.0       186         41.9       45.2       163         43.7       42.4       135         39.3       44.4       163         40.0       43.3       159         38.3       48.5       191         34.4       37.2       206         54.5       64.4       111         43.4       51.7       149         44.1       48.9       137         50.6       65.1       125         62.0       70.0       83         61.0       72.8       46         51.0       65.9       97         49.0       62.7       131         48.8       63.0       132         60.1       69.5       86         68.8       68.6       37         71.4       77.7       20	42.3       44.9       149       113         41.9       53.3       221       145         43.3       50.8       150       73         36.0       45.0       186       130         41.9       45.2       163       130         43.7       42.4       135       106         39.3       44.4       163       110         40.0       43.3       159       111         38.3       48.5       191       191         34.4       37.2       206       182             54.5       64.4       111       64         43.4       51.7       149       104         44.1       48.9       137       105         50.6       65.1       125       53         62.0       70.0       83       37         61.0       72.8       46       15         51.0       65.9       97       45         49.0       62.7       131       72         48.8       63.0       132       75         60.1       69.5       86       33         68.8       68.6       37       26	42.3       44.9       149       113       248         41.9       53.3       221       145       391         43.3       50.8       150       73       225         36.0       45.0       186       130       316         41.9       45.2       163       130       281         43.7       42.4       135       106       228         39.3       44.4       163       110       278         40.0       43.3       159       111       239         38.3       48.5       191       191       320         34.4       37.2       206       182       363             54.5       64.4       111       64       170         43.4       51.7       149       104       242         44.1       48.9       137       105       225         50.6       65.1       125       53       192         62.0       70.0       83       37       118         61.0       72.8       46       15       59         51.0       65.9       97       45       149         49.0       62.7	42.3       44.9       149       113       248       173         41.9       53.3       221       145       391       239         43.3       50.8       150       73       225       116         36.0       45.0       186       130       316       220         41.9       45.2       163       130       281       208         43.7       42.4       135       106       228       176         39.3       44.4       163       110       278       169         40.0       43.3       159       111       239       175         38.3       48.5       191       191       320       320         34.4       37.2       206       182       363       316         54.5       64.4       111       64       170       94         43.4       51.7       149       104       242       162         44.1       48.9       137       105       225       169         50.6       65.1       125       53       192       70         62.0       70.0       83       37       118       46 <t< td=""><td>42.3       44.9       149       113       248       173       65         41.9       53.3       221       145       391       239       43         43.3       50.8       150       73       225       116       52         36.0       45.0       186       130       316       220       58         41.9       45.2       163       130       281       208       61         43.7       42.4       135       106       228       176       68         39.3       44.4       163       110       278       169       64         40.0       43.3       159       111       239       175       66         38.3       48.5       191       191       320       320       52         34.4       37.2       206       182       363       316       70         54.5       64.4       111       64       170       94       28         43.4       51.7       149       104       242       162       50         54.5       64.4       111       64       170       94       28         43.4       51.7</td></t<>	42.3       44.9       149       113       248       173       65         41.9       53.3       221       145       391       239       43         43.3       50.8       150       73       225       116       52         36.0       45.0       186       130       316       220       58         41.9       45.2       163       130       281       208       61         43.7       42.4       135       106       228       176       68         39.3       44.4       163       110       278       169       64         40.0       43.3       159       111       239       175       66         38.3       48.5       191       191       320       320       52         34.4       37.2       206       182       363       316       70         54.5       64.4       111       64       170       94       28         43.4       51.7       149       104       242       162       50         54.5       64.4       111       64       170       94       28         43.4       51.7

Source: Columns 1, 2 and 7: UN 1998h; columns 3 and 5: UNICEF 1999b; columns 4 and 6. UNICEF 1999a; column 8: UNICEF 1998b.



	Infants with	One-ye fully im	ar-olds munized	Oral rehydration	AIDS	Tuber- culosis	Malaria	People with	Pregnant	Cîgarette		
HD1 rank	low birth- weight (%) 1990-97°	Against tuber- culosis (%) 1995-97*	Against measles (%) 1995-97	therapy use rate (%) 1990-97°	(per 100,000 people) 1997 b	(per 100,000 people) 1996	(per 100,000 people) 1995	disabilities (as % of total population) 1985-92*	with anaemia (%)	consumption per adult (1970-72 = 100) 1990-92	(per 100,000 people) 1993 °	(per 100,000
High human development	7	91	90	o	84.0	19.6	nf,	9.7	Bo	90	244	662
1 Canada	6		98†	,	50 4			15,5	10	65	221	
2 Norway	4	10	931	14	13.7	5.0	per .	44	85	90		958
3 United States	7	44	891	60	225.3	7.9	0.3	12.0	**	72	245	878
4 Japan	7	91 <sup>f</sup>	94	n.ę.	1.2	33.5	**	2.3	he.	110	177	641
5 Belgium	6	91	64	10	23.7	13.3	3.0	900	14	75	365	44
6 Sweden	5	12	96	м	17.6	5.6	10	12.0	44	91	299	1,048
7 Australia	6	184	87	46	40.5	411	3,4	15.6	de es	79		170 10
8 Netherlands	4		96	11	29.6	10.8	2.0	11.5	**	90		
9 Iceland		98	98	»I	15.7	4.1	**		44	136		*1
10 United Kingdom	7	99	95	48	25.9	10.7		14.2	8.0	68	164	de a
11 France	5	83	97	10	81.0	13.1	1.7	D D	16	114	280	392
12 Switzerland	5	40.0	40	98	83.8	10.6		86	49	79	301	ы
13 Finland	4	100	98	45	5.2	12.6		17.0	64	87	269	2,184
14 Germany 15 Denmark	6	**	75 <b>8</b> 4	1-5	20.7	14.4	**	8,4	0.0	97	319	
		64		"	40.1	9.2		12.0	8-6	93	283	
16 Austria	6		90	**	21.7	17.1	**	22.7		92	327	530
17 Luxembourg		58	91	**	29.3	9.9		14	04	67	213	alse
18 New Zealand 19 Italy	6 5	20 1	100 94	8.6	17.1	8.7		13,0	46	82	210	1,249
20 Ireland	4	9.6			71.5	7.2	**	2.7	88	107		
	·	**	н	\$6	17.1	11.9		3.5	No.	6.0	167	
21 Spain	4	"	901	Ħ	123.3	21.0	10	15.0	40	122	400	44
22 Singapore 23 Israel	7	98	89	10	9.1	21.8	9.4	0.4	57	64	147	416
24 Hong Kong, China (SAR)		11	94	**	8.1	6.4	24	64	64	111	459	671
25 Brunei Darussalam	14	99	98	20	4.6	* *	45.0	8.0	80	111		
				45	N .	41	15.3	84	14	4.8	h h	44
26 Cyprus 27 Greece	6	70	90	49	7.01	3.2	0.1	2,3	16	10	231	425
28 Portugal	5	70 91	90 94	4.0	16,5	F2 0	**	10	40		387	278
29 Barbados	10		92	110	48.0 290.8	53.2	•	11.0	44	140		304
30 Korea, Rep. of	9	90	85	40	0.2	1.1 68.7	0.3	ès	29	44		323
31 Bahamas							0.3	64	10	127	127	232
32 Malta	**	96	93	11	891.3	20.7	,	14	12	91	141	258
33 Slovenia	re re	98	51 92	10	11.6	7.4			*		250 1,	,189
34 Chile	5	98	92	H	3.2 13.4	28.2	**	4+	н	44		686
35 Kuwait	7		95	**	1.4	28.0 23.7	38.8	0.0	32	86	108	42
36 Czech Republic	6	97	97				0.00	0.4	н	44	178	468
37 Bahrain	6	37	97 <b>9</b> 5	39	1.1 .			40	60	41	293	944
38 Antiqua and Barbuda	8	do.	93		6.4	27.4	33.7	1.0	40	46		289
39 Argentina	7	100	92	NP over	29.9	7.6 38.0	3.0	be	**	30		233
40 Uruguay	8	99	80	84	28.7	21.6			Pe		268	54
41 Qatar		99	87	71			**	4+	4.0	104	309	61
42 Slovakia		90	98		14.9 0.3	46.0	85,1	0.2	14			354
43 United Arab Emirates	6	98	35	42		28.0 22.4	120.0	14	In		325	44
44 Poland	PV	94	91	10	1.5	39.7	129.0	0.0	40		168	321
45 Costa Rica	7	91	99	31	32.8	4.4	FP	9.9	04	120	100	DE .
Medium human development	17	, 94	86	75	17.0	75.2	627,4	2.7	44			95 1 <b>75</b>
46 Trimidad and Tobago	10	49	88	P)	199.9	16.1	2.8	1.1				
47 Hungary	9	100	100	**	2.8	43.2	2.0	15.7	91			168
48 Venezuela	9	89	68	н	30.4	25.0	73.4		52		37 94	77
49 Panama	8	99	92	94	52.5	41.1	27.3	1.4				98
50 Mexico	7	99	91	81	34.3	11.7	7.9	0.0				40

#### 9 Health profile

HDI rank	infants with low birth- weight (%) 1990-97	fully immage full immage fully immage fully immage fully immage fully immage full immage fully immage full imm		Oral rehydration therapy use rate (%) 1990-974	AiDS cases (per 100,000 people) 1997 h	Tuber- culosis cases (per 100,000 people) 1996	Malaria cases (per 100,000 people) 1995	People with disabilities (as % of total population) 1985-92 * <	with anaemia (%)	Cigarette consumption per adult (1970-72 = 100) 1990-92	Doctors (per 100,000 people) 1993 °	Nurses (per 100,000 people) 1993 °
			0.7			3.6			57		89	590
51 Saint Kitts and Nevis	9	99 ·	97 92	én én	D4	7.6	1.1	P4	63	**	50	239
52 Grenada 53 Dominica	10	100	100	41	40	14.1	40		28		46	263
54 Estonia	P.	99	88		1.2	35.5	68	17	āù	n (	312	636
55 Croatia	**	98	91	5	2,6	48.4	.,	04	10	н	201	470
	8	100	89		5.3	62.8	288.1		36	116	43	160
56 Malaysia	9	98	76	53	21.5	24.7	126.4	1.2	8	93	105	49
57 Colombia	7	99	100	ara en	5.4	14.3	0.2	1.7	"	85	518	752
58 Cuba	13	84	84	11	3.8	00	10	2.6	94	140	85	241
59 Mauritius 60 Belarus		98	74	92	0.2	53.9	84	61	01		379	1,160
			75		1.0	25.7	24	0.9	40	138	38	215
61 Fiji	12	95 98	75 96	8.0	0.3	70.2	5.0	11	44		399	977
62 Lithuania	6	97	93	14	0.6	36.8	41	0.4	10	127	333	652
63 Bulgaria	13		78	91	48.3 9	12.9	1,609.4		1.0	161	40	227
64 Suriname 65 Libyan Arab Jamahiriya	7	99	92	49	0.3	25.2	0.6	84	64	44	137	366
						20.2			5.0	49	104	417
66 Seychelles	10	100	100 91	95	101.3	67.4	139.8	0.7	48	130	24	99
67 Thailand	6	98 100	97		22.8	106.9	1,3,500	011	**	89	176	430
68 Romania	7		89	 82	3.19	27.1	0.9	22		bil	191	122
69 Lebanon	10 6	99	99	Q12.	NA 4	21.8	14	p4	19	49	38	186
70 Samoa (Western)				14						10	380	659
71 Russian Federation	6	99	91		0,2	75.1 54.1	155.0	10	61	134	111	34
72 Ecuador	13	100	75	64	5.2	36.7	(33.0	89	**		219	334
73 Macedonia, TFYR	gh	97	98	t.e	1.1 0.8	70.5	E0 24	40	96	14	303	628
74 Latvia	**	100	97 100	tel		70.0	44	29	20		46	187
75 Saint Vincent and the Grenadines	8	98		ů.	40						360	874
76 Kazakhstan	8.6	99	92	31	0,1	84.8	524.8	1,1	48	88	11	43
77 Philippines	9	82	72	87	4.75	395.3	99.6	21.1	23	175	166	348
78 Saudi Arabia	7	99	87	58	1.7 69.4	54.0	350.2	1.8		113	134	41
79 Brazil	8	100	100	54 55	24.5	174.3	804.5	0.2	14	85	73	49
80 Peru	11	98	94	33	24-3	17-51-3	00.119		22		35	177
81 Saint Lucia	8	100	95	41		4.0	0.4	86	62	61	57	69
82 Jamaica	10	97	88	41	86.8	4.9 24.2	0.4 4,302.5	6.6	65		47	76
83 Belize	4	95	98	**	88.4	43.3	18.1	010		92	67	10
84 Paraguay	5	87	61	33	5.6 0.4	67.9	1011	24		80	436	863
85 Georgia	89	76	95	14				1.4		108	103	151
86 Turkey	8	73	76	100	0.4	32.4	131.7		41		312	831
87 Armenia	7	72	92	33	0.2 9	26.0	22.7	69	46	111	77	20
88 Dominican Republic	13	88	80	39	48.7	75.4 10.0	80.8	25		н	120	290
89 Oman	8	96	98	61	5.6 0.4	30.1	786.3	0.4	24	93	23	112
90 Sri Lanka	25	96	94	34			, 04.0			60	429	1,211
91 Ukraine		95	97	44	0.7	45.7	87	.04	10	**	335	1,032
92 Uzbekistan	40	97	88	37	(.)	52.2	6.6	48	41	+4	19	13
93 Maldives	13	99	96	**	1.8	82.8	6.6 3.3	0.5	41	165	158	224
94 Jordan	7	24	90	41	0.9	8.0 22.4	106.4	010	**	102	4.0	10
95 Iran, íslamic Rep. of	10	99	96	37	46		19074			60	353	1,195
96 Turkmenistan	5	97	100	98	(.)	49.9	80	93	+#	64	310	879
97 Kyrgyzstan		99	85	98	0	89.1	10	4+ A D	011	260	115	88
98 China	9	96	96	85	(.)	38.1	7 007 E	4,9 3.9	58	341	33	88
99 Guyana	15	94	82	44	99.4 9	37.5	7,087.5		2/0	100	141	423
100 Albania	7	94	95	n sp	0,3	23.4	н	gb				

9 H	eal	lth	рго	file
-----	-----	-----	-----	------

HDI rank	infants with low birth- weight (%) 1990-97 a	Against tuber- culosis (%)	Against measles (%) 1995-97	Oral rehydration therapy use rate (%) 1990-97 a	cases (per 100,000 people) 1997 b	Tuber- culosis cases (per 100,000 people) 1996	Malaria cases (per 100,000	People with disabilities (as % of total population) 1985-92 4 c	Pregnant women with anaemia (%)	Cigarette consumption per adult (1970-72 = 100) 1990-92	Doctors (per 100,000 people) 1993 °	(per
101 South A52-												1223
101 South Africa 102 Tunisia	8	95 93	76 92	41	29.6 g 3.6	240.2 26.3	24.4		61	128	59	175
103 Azerbaijan	6	94	97	71	0.1	32.6	0.5 37.4	0.9	38	127	67	283
104 Moldova, Rep. of	4	99	99	***	0.4	66.8	37.74	04	40	41	390	1,081
105 Indonesia	8	100	92	97	86	12,3	728.8	1.1	74	103	356 12	1,020
106 Cape Verde	9	80	82	83	80		78.3	4.3	48			
107 El Salvador	11	93	97	69	34.1	29.1	58.1	4,3	14	80	29 91	57 38
108 Tajikistan	99	99	95	40	0.0	28.2	105,3	N N	0.0	60	210	738
109 Algeria	9	94	74	98	1.1	20	0.1	40	50	168	83	730
110 Viet Nam	17	96	96	99	1.3	99.4	886.3	5.7	19	91		41
111 Syrian Arab Republic	7	100	93	27	0.3	35,7	4.3	1.0		211	109	212
112 Bolivia	12	93	98	41	2.0	134.3	617.8	2.6	69	108	51	25
113 Swaziland	10	85	82	99	270.3	433.3	63	+0	20	0	-21	2.3
114 Honduras	9	98	89	32	107.1	71.8	1,022.1	**	8-6	м	22	17
115 Namibia	16	65	58	100	420.6	427,9	6,671.4	19	49	**	23	81
116 Vanuatu	7	60	59	44	40	72.8	4,808.8	be .	87	44		
117 Guatemala	15	87	74	22	17.9	34.1	236.0	3.8	49	44	90	30
118 Solomon Islands	20	73	68	100	41	73.6	30,269.6	99	30	56		141
119 Mongolia 120 Egypt	7	96	91	10	0.0	119.7	4.6	01	41	ba .	268	452
	10	98	92	95	0.2	19.4	0.5	1.6	75	166	202	222
121 Nicaragua	9	100	94	54	3.6	66.0	1,525.6	44	P4	106	82	56
122 Botswana 123 São Tomé and Principe	11	59	79	43	351.6	439.9	1,166.6	4.0	99			
124 Gabon	7	70	60	74	P9	0-0		89	49	10	32	
125 Iraq	15	72 97	32 98	25	120.9 8	80.5	10	101	66	**	19	56
126 Morocco	•			67	0.5	141.7	436.6	0.9	64	79	51	64
127 Lesotho	9	94	92	29	1,4	120.3	0.7	1.6	86	135	34	94
128 Myanmar	11 24	46 94	43	84	114.3	221.3	11	0.0	44	14	5	33
129 Papua New Guinea	23	68	88 41	96	3.9	51.2	1,481.2	0.4	60	167	28	43
130 Zimbabwe	14	82	73	60	6.8 5 <b>64.4</b>		21,054.0	to.	**	04	18	97
131 Equatorial Guinea	* *			00		323.5	2,987.7	14	94	61	14	164
132 India	33	9 <del>9</del>	82	H	55.0 9	44	3,058.2	***	+4	84	21	34
133 Ghana	8	96 72	81 59	67	107.4.4	136,9	294.7	0.2	88	236	48	
134 Cameroon	13	53	43	93 43	102.1 g 69.1	57.6	6,472.3	20	60	61	4	F-)
135 Congo	16	29	18		372.4 9	22.5	1,631.2	44	g to	274	7	44
136 Kenya	16	42				ah	his .	86	46	102	27	49
137 Cambodia	10	82	32 68		263.1		15,594.3	44	40	119	15	23
138 Pakistan	25	90	74	57 97	0.1	145.2	70.0	н	0.0	130	58	136
139 Comoros	8	55	49	32	2.8	3.1 22.5	79.9	4.9	0.0	102	52	32
w human development	20	70	55	66			30,030.2	10	86	20	10	33
140 Lao People's Dem. Rep.					67.5	100.7	01	40	ná	152	13	45
141 Congo, Dem. Rep. of the	18 15	58 91	67	32	1.3	29,4	6,356.5	104		118	64	IR.
142 Sudan	15	79	63 71	90 31	80.0	98.3		100	11	123	0.0	76
143 Togo	20	53	38		5.9 <b>8</b> 5.2	74.7	854.9	5.3	50	88	10	70
44 Nepal	**	96	85	29	0.8	39.6 105.4	44.6	20	47	88	6	31
45 Bhutan	20	92	84	85	0.0	67.2	1,225.6	3.0	30	341	5	5
46 Nigeria	16	29	38				1,000,000	ėn.	30	#B	20	6
47 Madagascar	5	64	39	23	14.4 0.2	23.7	84	nds .	65	128		142
48 Yemen	19	54	43	92	0.5 9	89.7	-	100	44	170	24	55
49 Mauritania	11	69	20	51	6.7 9	91.6	**	mq	2.4	172	26	51
150 Bangladesh	50	91	62	61	-0.00	49	be	draft	24	44	11	27

#### 9 Health profile

	Infants with		ear-olds munized	Oral	Aine	Tuber-		People				
HD rank	low birth- weight (%) 1990-97	Against tuber- culosis (%) 1995-97°	Against measles (%) 1995-97	rate (%)	cases (per 100,000 people) 1997 b	culosis cases (per 100,000 people) 1996	Malaria cases (per 100,000 people) 1995	with disabilities (as % of total population) 1985-92 a.c	Pregnant women with anaemia (%) 1975-91 * d	Cigarette consumption per adult (1970-72 = 100) 1990-92	Doctors (per 100,000 people) 1993 e	(per
151 Zambia	13	81	69	57	530.1	481.8	32,687.5	1.6		86		
152 Haiti	15	40	30	31	67.24	86.3	301.0	**	10		16	13
153 Senegal	4	80	65	39	22.69	99.6	20110	84	53	244	7	35
154 Côte d'Ivoire	12	73	68	73	265.50	94.8	32.7	F9	34	89		20
155 Benin	0.0	89	82	33	39.8	43.3	10,570.4	44	46	102	6	33
156 Tanzania, U. Rep. of	14	82	69	50	281.4 9	144.7	7,941.6			97	4	46
157 Djibouti	11	58	47		263.7	503.5	550.7		94			
158 Uganda	13	84	60	49	249.0	140.5		ny		100	20 4	20
159 Malawi	20	100	87	70	505.4	209.8	shor	2.9	10-91	165		28
160 Angola	19	68	78	**	11.29	136.0	1,380.7	2.3	41	100	2	6
161 Guinea	13	69	56	31	44.0	58.9	7,048.7				15	
162 Chad	64	36	17	29	109.7	28.1		44	-	80	2	. 6
163 Gambia	més	99	91	99	43.1	108.0	ы	44	84	41		
164 Rwanda	17	79	66		204.9 9	64.5	49	10	94	**	2	25
165 Central African Republic	15	94	46		205.4	07.0	3.8	**	62	12	6	45
166 Mali	16	76	56	29	35.1	35.9	41	2.8	50		4	9
167 Eritrea	13	67	53	38	101.6	158.2				0.0	2	_
168 Guinea-Bissau	20	82	51		74.09	155.6		104	64	93	18	45
169 Mozambique	20	79	57	49	33.5	102.7	40	43	58	124		
170 Burundi	m m	71	50		142.5		14,888.7	**	 	14°	6	17
171 Burkina Faso	21	46	33	100	91.24	16.9	4,680.5		55			
172 Ethiopia	16	90	52	95	35.9	301.2	•	3.8		150	4	**
173 Niger	15	44	42	85	30.7 9		8,697.7	3.0	57	155	3	8
174 Sierra Leone	11	38	26	0.5	4.69	75.6		90	45	176		17
All developing countries	18	88	79	74	28.9	78.7	883.1	**	**	160	76	85
Least developed countries	22	81	61	64	69.1	112.5	3,220.7	**	*1	156	14	26
Sub-Saharan Africa	15	67	53	71	111.1	129.3	**	**	**	121	16	75
Arab States	11	88	82	65	2.2	61.7	174.0	**		159	111	180
East Asia	9	96	96	85	(.)	39.3	**	4)		246	116	94
East Asia (excluding China)	9	91	86	**	0.7	71.3	0.3		41	127	134	243
South-East Asia and the Pacific	12	94	87	93	29.6	96.0	963.1	**	**	147	19	75
South Asia	32	95	80	67		107.3	251.3	14		134	44	
South Asia (excluding India)	29	93	77	66	0.1	30.6	138.6	**	· ·	135	33	24
Latin America and the Caribbean	9	96	89	59	43.7	45.7	251.2	1+	**	91	136	61
Eastern Europe and the CIS	**	97	92		1.8	61.3	**		н	+1	356	813
Industrialized countries	6	**	90	54	99.1	14.8	**	**	.,	88	253	**
World	17	89	80	74	39.7	68.5		.,	**	115	122	241

a. Data refer to the most recent year available during the period specified in the column heading.

b. Data refer to the cumulative reported AIDS cases among adults and children.

c. For a definition of disability see the definitions of statistical terms.

d. Data refer to women aged 15-49.

e. Data refer to 1993 or a year around 1993.

f. Data refer to a year or period other than that specified in the column heading, differ from the standard definition or refer to only part of the country.

g. Data refer to a year pnor to 1997.

Source. Columns 1-4. UNICEF 1999a, column 5. UNAIDS and WHO 1998b, columns 6, 7, 11 and 12: WHO 1998a, column 8: UN 1993, column 9: UN 1994; column 10: WHO 1997.

1	- 1		Net enro	lment ratio					Public educati	on expenditu	ire
HOI rank		Adult literacy rate (%) 1997	Primary (as % of relevant age group) 1997	Secondary (as % of relevant age group) 1997	Tertiary science enrolment (as % of total tertiary) 1995 a		Children not reaching grade 5 (%) 1992-95 b	As % of GNP 1993-96 b	As % of total government expenditure 1993-96 b	Primary and secondary (as % of all levels) 1993-96 b	Higher (as % of all levels)
High human d	levelopment	**	99.3	94.0		3.8		5.1	12.5		
1 Canada		**	99.9	95.2	**	3.7				-	,
2 Norway			99.9	97.6	19	5.1	0	7.0	13.5	61.5	35.3
3 United 9	States	**	99.9	96,3		3.6		7.5	4.4	53.5	27.9
4 Japan			99.9	99,9	23	7.1	**	5.4	14.4	67.8	25.2
5 Belgium		**	99.9	99.9	25		**	3.6	9.9	78.8	12.1
		*,			23	4.0	**	3.2	10	68.0	20.3
6 Sweden		••	99.9	99.9	29	6.8	2	8.3	60	67.0	25.5
7 Australia		**	99.9	96.0	29	4.0		5.6	12.9	69.5	29.8
8 Netherlar	nds	**	99.9	99.9	20	3.9	**	5.2	8.7	62.9	
9 Iceland		**	99.9	87.5	**	4.4	1	5.4		72.7	29.9
10 United K	(ingdom	**	99.9	91.8	31	3.4		5.4	99		17.7
11 France			99.9				tr.		86	73.7	23.7
12 Switzerla	hne	**		98.7	24	5.4	**	6.1	11.1	69.8	17.0
13 Finland		41	99.9	83.7	32	44	**	5,3	14.7	74.3	19.7
14 Germany	,	**	99.9	95.4	37	4.8	0	7.6	12.2	60.6	28.8
15 Denmark		•	99.9	95.3	35	4.3	**	4.8	9.5	72.2	22.6
	•	**	99.9	94.8	24	5.2	0	8.2	13.1	61.2	22.8
16 Austna		**	99.9	97.3	29	2,4		5.7			
17 Luxembo	urg	**		40					10.6	68.8	21.6
18 New Zea	land	**	99.9	92.9	20	2.6		4.1	15.1	95.2	4.8
19 Italy		98.3	99,9	95.0	28			7.3	88	64.8	29.1
20 Ireland		**	99.9	99.9	31	2.1	0	4.7	9.0	70.9	15.0
21 Spain					21	2.4	**	5.8	44	65.0	23.8
22 Singapore		97.2	99.9	91.9		1.6	1	4.9	12.8	74.8	15.1
23 Israel		91.4	91.4	75.6	**	2.6		3.0	23.4	60.3	34.8
	- Chi- (CAD)	95.4	**		27		-6	7.2		65.3	18.2
	ng, China (SAR)	92.4	91,3	69.0	36	0.2	0	2.9	фи		
25 Brunei Da	russalam	90.1	87.9	81.9	6	**	5	3.1	011	56.4	37.1
26 Cyprus		95.9			10			3.1	**	45.3	1.1
27 Greece		96.6	99,9	91.4	19	0.4	0	84	13.2	83.3	6.5
28 Portugal		90,8	99.9		30	1,1		3.0	**	73.3	25.0
29 Barbados		97.6	97.4	89.7	30	1.4		5.5	10	77.9	16.4
30 Korea, Rep	p. of	97.2	99.9	85.7	19	**	**	7.2	19,0	61	41
31 Bahamas			33.3	99.9	39	2.9	0	3.7	17.5	81.1	8.0
		95.8	94.6	84.6		4+			17.7		
32 Malta		91.1	99,9	85.2	13	0.1	0	"	13.2		
33 Slovenia		99.0 °	**	.,	18	3.7		r 0	44	50.0	10.9
34 Chile		95.2	90.4	85.2	42			5.8	12.6	67.7	16.9
35 Kuwait		80.4	65.2	63.2	23	"	0	3,1	14.8	71.8	16.4
36 Czech Repu	ublic		99.9			**	**	5.7	8.9	50.6	29.9
37 Bahrain		86.2		99.9	36	1.9		5.4	45	69.4	15.1
38 Antigua and	d Barbuda		98.2	87.2	39	**	1	**	12.8	73.1	.,
39 Argentina		96.5		:	14		**	**			
40 Uruguay			99.9	76.9	30	0.8		3.5	12.6	61.4	21.0
		97.5	94.3	83.8	**	0.7	2	3.3	15.5	61.6	19.6
41 Qatar		80.0	83.3	73.3	1*	0.5			12.3	01.0	13.0
42 Slovakia		**	**	4+		2.6	1	3.4	**	**	
43 United Arab	Emirates	74.8	82.0	77.8	**			4.9	40	58.6	12.7
14 Poland		99.0 °	99.4	86.5	29	1.8	2		16.7	84	44
15 Costa Rica		95.1	91.8	55.8	18		2	5.2		63.0	14.6
dium human dev	elonment				10	14	12	5.3	22.8	64.5	28.3
			90.7	65.1		0.7	21	3.8	13.9	**	
6 Trinidad and T	ouago	97.8	99.9	71.5	45	**	**	3.7	11.6		
Hungary	0	99.0 4	97.5	96.9	29	1.6	**	4.7		0.08	1F.C
Venezuela		92 0	82.5	48.9	**	0,2	11			67.8	15.6
Panama		91 1	89.9	71.3	26	**		 4 E			34.7
Mexico		90 1	99.9	66.1	33	0.3	1/	4.6	20.9		24.8
					50	0,5	14	4.9	23.0	73.9	17.2

### 10 Education imbalances

		Net enro	lment ratio					Public education	on expenditu	ire
HDi rank	Adult literacy rate (%) 1997	Primary (as % of relevant age group) 1997	Secondary (as % of relevant age group) 1997	Tertiary science enrolment (as % of total tertiary) 1995 a			As % of GNP 1993-96 <sup>b</sup>	As % of total government expenditure 1993-96 b	Primary and secondary (as % of all levels) 1993-96 b	Higher (as % of all levels) 1993-96
51 Saint Kitts and Nevis	40	6.6	#4	64	**	d+	3.8	8.8	75.7	11.4
52 Grenada	419	6.0	30	40	P*	49	40.0	**	9.5	+1
53 Dominica	**	**	47	58	**	**	- 11		**	
54 Estonia	02.2	99.9	86.1	34	2.6	4	7.3	22.3	50.7	17.9
55 Croatia	97.7	99.9	72.4	38	2.7	2	5.3	64	80	. 45
56 Malaysia	85.7	99.9	64.0	411	0.2	1	5.2	**	76.3	16.8
57 Colombia	90.9	89.4	76.4	31	**	27	4.4	19.0	72.0	19.2
58 Cuba	95.9	99.9	69.9	23	2.7	0	**	12.6	57.3	14.9
59 Mauritius	83.0	96.5	68.0		0.5	1	14	01	76.6	12.8
60 Belarus	99.0 °	0.0	an	35	2.6	40	6.1	17.8	72.5	11.1
61 Fiji	91.8	99.9	84.2	aa	0.2		84	49	**	+4
62 Lithuania	99.0 °	14	4+	0.0	1.3	84	5.6	22.8	50.9	18.3
63 Bulgaria	98.2	97.9	77.6	25	2.6	14	3.3	7.0	52.4	18.0
64 Suriname	93.5	99.9		Au	**	**			75.2	7.6
65 Libyan Arab Jamahiriya	76.5	99.9	99.9	1+	46	17	**	**	**	9.0
	7 013	5510	2012							
66 Seychelles	**		**	45	14	0	7.6	16.3	59.7	13.1
67 Thailand	94.7	88.0	47.6	19	0.2	40	4.1	20.1	73.2	19.4
68 Romania	97.8	99.9	75.8	51	2.0	**	3.6	10.5	60.3	15.9
69 Lebanon	84.4	76.1	4.0	17	0 10	**	2.5	8.2	68.9	16.2
70 Samoa (Western)	9-0	96.5	94	14	0.6	14	44	41	4.0	***
71 Russian Federation	99.0 °	99.9	87.6	49	4.2	le .	4.1	9.6		2.0
72 Ecuador	90.7	99.9	50.9	94	0.3	15	3.5	13.0	74.4	21.3
73 Macedonia, TFYR	91	0.0	49	41	1.7		5.6	20.0	78.0	22.0
74 Latvia	99.0 °	99.9	80.6	34	1.6	8.0	6,5	14.1	58.9	12.2
75 Saint Vincent and the Grenadines	A.E	**	no	q h	61.0	**	**	NA.	9.0	91
76 Kazakhstan				42		84	4.7		60.4	12.5
77 Philippines	94.6	99.9	77.8	31	0.2	49	2.2	10	14	**
78 Saudi Arabia	73.4	60.1	58.7		Vill.	11	11	17.0	82.2	17.8
79 Brazil	84.0	97.1	65.9	 22	0.2	29	5.2	49	68.7	26.2
80 Peru	88.7	93.8	83.9		0.8	41	2.9	19.2	39.5	16.0
	00:/	33.0	03.3		0.0					
81 Saint Lucia	**	49	# O		49	91	9.8	22.2	69.1	12.5
82 Jamaica	85.5	95.6	69.8	94	(.)	11	7.5	12.9	65.5	22.4
83 Belize	8.6	99.9	63.6		40	30	5.0	19.5	87.9	6.9 1 <b>9</b> .7
84 Paraguay	92.4	96.3	61.1	25	0.0	29	3.9	18.6	68.1 45.1	18.5
85 Georgia	8.6	89.0	75.9	48	40	94	41	as.		
86 Turkey	83.2	99.9	58.4	21	0,3	5	2.2	84	65.0	34.7
87 Armenia	44	14	49	14	41	40	2.0	10.3	63.0	13.2
88 Dominican Republic	82.6	91.3	78.5	44	41	49	2.0	13.4	62.0	13.0
89 Oman	67.1	67.7	66.6	44	41	4	80	17.8	98.8	
90 Sri Lanka	90.7	99.9	76.0	ė#	0.2	17	3.4	8.9	74.8	9.3
91 Ukraine					3.9	ed	7.2	72	65.2	10.7
92 Uzbekistan	**	60	94	9.0	2.0	**	8.1	21.1	69.9	9.7
	or 7	66	93	0.0		ža.	6.4	14	98.6	**
93 Maidives 94 Jordan	95.7	de la	- 0	28	0.1	2	7.3	19.8	64.5	33.0
	87.2	90.0	81.2	37	0.7	10	**	94	83.0	1.2
95 Iran, Islamic Rep. of	73.3	90.0	01.2	37	401					
96 Turkmenistan	49	44	49	84	**	44	44 IS 79	22.5	68.0	14.1
97 Kyrgyzstan	17	99.5	77.8	28	8.0		5.7	23.5	68.0	15.6
98 China	82.9	99.9	70.0	37	0.6	6	2.3	11.9	68.3 71.3	7.7
99 Guyana	98.1	92.8	74.9	43	68	40	4.9	10.0		
100 Albania	84	NY (P	46.6	24	mb	18	3.1	0-4	77.8	10.3

### 10 Education imbalances

		Net enro	Iment ratio					Public educati	on expenditu	Tre
HDI rank	Adult literacy rate (%) 1997	Primary (as % of relevant age group) 1997	Secondary (as % of relevant age group) 1997	Tertiary science enrolment (as % of total tertiary) 1995 °	R&D scientists and technicians (per 1,000 people) 1990-96 b		As % of GNP 1993-96 <sup>b</sup>	As % of total government expenditure 1993-96 b	Primary and secondary (as % of all levels) 1993-96 b	Higher (as % of all levels)
101 South Africa	84.0	00.0	04.0							
102 Tunisia	67.0	99.9	94.9	57	1.2	y a	7.9	23.9	71.6	14.3
103 Azerbaijan		99.9	74.3	24	0.4	9	6.7	17.4	79.7	18.5
104 Moldova, Rep. of	98.3	wy	8-9	38	41	м	3.3	21.3	63.9	7.5
105 Indonesia			41	34	1.8	16	9.7	28.1	52.9	13.3
	85.0	99.2	56.1	28	14	11	1.4	7.9	72.9	25.1
106 Cape Verde	71.0	99.9	36.6	84	.,					
107 El Salvador	77.0	89.1	36.4	25	0.3	23	2.2	0.0		- 64
108 Tajikistan	98.9	44	11	23	0.7		2.2	44 =	67.5	7.2
109 Algeria	60.3	96.0	68.5	52		6		11.5	71.2	7.1
110 Viet Nam	91,9	99.9	55.1	**	0.3		5.2	16.4	95.3	
111 Syrian Arab Republic	71.6	94.7			0,3	88	2.7	7.4	19	41
112 Bolivia	83.6	97.4	42.3	29	4+	6	4.2	13.6	71.7	25.9
113 Swaziland	77.5		40.0	94	0.4	* 11	5.6	11.1	57.7	27.7
114 Honduras		94.6	81.5	22	0.0	13	7.3	18.1	62.8	26.6
115 Namibia	70.7 79.8	87.5	36.0	26	P4	40	3.6	16.5	74.0	16,6
	79.8	91.4	80.7	5	0.0	21	9.1	25.6	76.0	9.4
116 Vanuatu	78	71.3	42.8					2310		3,4
117 Guatemala	66.6	73.8	34.9	ę#	0.2		4.9	**	90.9	6.4
118 Solomon Islands	19	14	**	29		50	1.7	18.2	67.0	15.5
119 Mongolia	84.0	85.1	55.9	24	44	19	10	24	44	**
120 Egypt	52.7	95.2	75.1	15	1.1	91	6.4	19,3	56.0	14.3
121 Nicaragua				15	0.7	10	44	41	66.7	33.3
122 Botswana	63.4	78.6	50.5	84	0.3	46	3.6		80.3	
123 São Tomé and Principe	74.4	80.1	88.8	24	74	10	10.4	20.2		4
124 Gabon	n	6.0	pa.	le fi	*1	**			de di	4.4
125 Iraq	66.2			ėn.	0.2	41	2.8	**		**
*	40	74.6	42.9	Eq.	20	**			49	43
126 Morocco	45.9	76.6	37.7	29			44	49	64	84
127 Lesotho	82,3	68.6	72.9	25	**	22	5.3	24.9	83.4	16.5
128 Myanmar	83.6	99.3	54.2	36	**	20	7.0	44	83.9	14.8
129 Papua New Guinea	73,7	78.9			4+	49	1.2	14.4	88.0	11.7
130 Zimbabwe	90.9	93.1	59.2	tri There	**	27	812	41	41	41
131 Equatorial Guinea				23	40	21	44	ea.	78.1	17.3
132 India	. 79.9	79.3	68.5	nd.	**		1.8			
133 Ghana	53,5	77.2	59.7	44	0.3	41	3.4	5.6	44	**
134 Cameroon	66.4	43.4	**	64	44		3.4	11.6	66.0	13.7
135 Congo	71.7	61.7	39.8	411	**	64	2 0	+1	14	61
	76.9	78.3	84.1	11		45	2.9	447		*1
136 Kenya	79.3	65.0	61.1			43	6.2	14.7	61.8	28.0
137 Cambodia	40	99.9		en	date:	wh	6.6	16.7	78.5	15.8
138 Pakistan	40.9		38,8	10	**	51	2.9	41	.,	4-
139 Comoros	55.4	50.1	20.2	91	0.1	84	3.0	8.1	77.3	13.2
w human development			35.7	14	**	20	**		71.7	17.2
		56.6	28.4	4.		36				
40 Lao People's Dem. Rep.	58,6	73.0	63.4		**		**	b+	và.	
41 Congo, Dem. Rep. of the	ns.	58.2	37.1	45	link.	47	2.5		78.0	7.9
42 Sudan	53,3			**	411	**	44	14	**	41
43 Togo	53.2	82.3	" E0 D	40	81	14	64		69.8	21.1
14 Nepal	38,1	78.4	58.3	16		de-	4.7			24.7
15 Bhutan	44.2	13.2	54.6	17	No	44	3.1			17.9
6 Nigeria		13.2	44	**	14	18	es.			
	59,5	**	610	41	0.1			**	40	**
7 Madagascar 8 Yemen	**	58.7	64	23			0.9	11.5	**	a p
o remen	42.5	46			(.)	60	1.9	13.6	81.7	+=
			en.	10			6,1	20 B		
9 Mauritania	38.4	62.9			44		U, J	20.8	41	24
	38.4 38.9	62.9 75.1	21.6	8	by .	36	2.9			21.2

#### 10 Education imbalances

		Net enro	ment ratio					Public education	on expenditu	re
iDI rank	Adult literacy rate (%) 1997	Primary (as % of relevant age group) 1997	Secondary (as % of relevant age group) 1997	Tertiary science enrolment (as % of total tertiary) 1995 a	R&D scientists and technicians (per 1,000 people) 1990-96 <sup>b</sup>		As % of GNP 1993-96 <sup>b</sup>	As % of total government expenditure 1993-96 b	Primary and secondary (as % of all levels) 1993-96 b	Higher (as % of all levels) 1993-96
151 Zambia	75.1	72.4	42.2	**		49	2.2	7.1	59.9	23.2
152 Haiti	45.8	19.4	34.2	40	41		4.0	9.7		ès
153 Senegal	34.6	59.5	19.8	41		15	3.5	4.	76.7	23.2
154 Côte d'Ivoire	42.6	58.3	34.1	26	*1	25	5.0		82.6	17.4
155 Benin	33.9	67.6	28.2	19	0.2	39	3.2	15.2	79.3	18.8
	71.6	47.4	**	39	19	17		4+	b+	
156 Tanzania, U. Rep. of	48.3	31.9	19.6			21	**	84	4+	.,
157 Djibouti	64.0			13	44		2.6	21.4	100.0	.,
158 Uganda	57.7	98.5	72.6	18	10	**	5.5	6117	67.7	20.5
159 Malawi		34.7	31.2	10	10	**	41	46		2015
160 Angola	10			ab	49					
161 Guinea	37.9	45.6	14.6	24	4.6	46	47	ąn.	72.4	17.2
162 Chad	50.3	47.9	17.9	14	**	41	011	44	67.6	9.0
163 Gambia	33.1	65.9	33.3	**		20	40	21.2	80.5	12.9
164 Rwanda	63.0	78.3	99	14	(.)	40	né	0.0	11	
165 Central African Republic	42.4	46.2	19.0	10	0.1	60	**	4=	69.7	.24.0
166 Mali	35.5	38.1	17.9	10	05	18	2.2	44	67.0	17.7
167 Eritrea	40	29.3	37.9		**	29	1.8	44	62,1	14
168 Guinea-8issau	33.6	52.3	24.1		-		44	å	#9	**
169 Mozambique	40.5	39.6	22.4	50	61	54	44	**	94	**
170 Burundi	44.6	35.6	17.1	40	0,1	he	3.2	18.3	79.4	17.1
			12.8	18		25	3.6	11.1	69	93
171 Burkina Faso	20.7	32,3	24.8	36	64	45	4.0	13.7	69.9	15.9
172 Ethiopia	35.4	35.2	9.4		14	27		1041		
173 Niger	14.3	24.4		30	40		- 07	**		
174 Sierra Leone	34.3	44.0	All	30	**	41	**			
All developing countries		85.7	60.4	44	0.4	22	3.6	14.8	**	
Least developed countries		60,4	31.2	43	*1	**	47		4*	
Sub-Saharan Africa		56.2	41.4	4.5	**	34	5.4	**	**	4.0
Arab States	,,	86.4	61.7	**	**	10	+ 10	15.8		**
East Asia	,,	99.8	71.0	**	0.6	6	2.7	13.6	44	
East Asia (excluding China)	.,	97.9	93.7		2.5	(.)	3.5	17.5		44
South-East Asia and the Pacific		97.8	58.3			14	3.0	.,	r+	0
South Asia	**	78.0	56.5	**	0.3	38	3.3	11.2	**	
South Asia (excluding India)	"	80.9	45.2	,,	**	**	3.0	**	**	
Latin America and the Caribbean	44	93.3	65.3		0.4	23	4.5	17.9	**	**
Eastern Europe and the CIS	13	,,,,,			3.1	**	4.6	**	.,	
Industrialized countries	14	99.9	96.2		4.1	**	5.1	12.3	**	
World	13	87.6	65.4		1.3	P4	4.8	12.7	**	**

a. Data refer to enrolment in natural and applied sciences.

Source Column 1. calculated on the basis of data from UNESCO 1999a; columns 2 and 3. UNESCO 1999d, column 4: UNESCO 1998c; columns 5, 7, 8 and 10: UNESCO 1998a; column 6: calculated on the basis of data from UNESCO 1999e; column 9: calculated on the basis of data from UNESCO 1998a.

b. Data refer to the most recent year available during the period specified in the column heading.

HDI rank	GNP (US\$ billions) 1997	GNP annual growth rate (%)	GNP per capita (US\$)	GNP per capita annual growth rate (%)	Average annual rate of inflation (%)		
	1337	1975-95	1997	1975-95	1985-96	1996	
High human development	24,193.6 T	2.7	23,999	1.9	4.7	21	
1 Canada	595.0	2.7	19,640	1.4	2.7		
2 Norway	159.0	3.3	36,100	2.9	2.7	1.1	
3 United States 4 Japan	7,783.1	2.5	29,080	1.5	3.2	4.8	
•	4,812.1	3.5	38,160	2.9		2.6	
5 Belgium	272.4	2.0	26,730	1.9	1.0 2.9	-0.2	
6 Sweden	231,9	1.2	26,210			1.7	
7 Australia	382.7	2.9	20,650	0.8	4.9	1.2	
8 Netherlands	403.1	2.3		1.6	3.9	0.9	
9 Iceland	7.1 *	3.1	25,830	1.7	1.5	1.8	
10 United Kingdom	1,231,3	2.0	26,470 =	2,1	11.0	1.7	
11 France			20,870	1.8	4.5	3.1	
12 Switzerland	1,541.6	2.2	26,300	1.7	2,6	1.3	
13 Finland	305.2	1.5	43,060	1.1	2.8		
14 Germany	127,4	1.9	24,790	1.5	3.6	1.1	
15 Denmark	, 2,321,0	**	28,280	ko		1.6	
	184.3	2.0	34,890	1.9	3.1	25	
16 Austria	225.4	2.4	27,920			2.6	
17 Luxembourg	18,6 *	3.9	44,690 *	2.1	2.9	2.6	
18 New Zealand	59.5	1.4	15,830	3.3	2.1	-0.8	
19 Italy	1,160.4	2.4	20,170	0.6	5,2	2.3	
20 Ireland	65.1	3.7	17,790	2.3	5.9	4.8	
21 Spain	569.6			3.0	2.6	2.3	
22 Singapore	101.8	2.2	14,490	1.7	6.1	3.2	
23 Israel	94.4	7.8	32,810	5.8	3.1	1.4	
24 Hong Kong, China (SAR)	163.8	4.5	16,180	2.1	no no		
25 Brunei Darussalam		7.6	25,200	5.7	7.6	5.4	
26 Cyprus	41	41	14	16	**		
27 Greece	ėv.	21	άψι		**	# P	
28 Portugal	122.4	2,4	11,640	1.7	**	*1	
29 Barbados	109.5	3.1	11,010	2.6	14.3	8.5	
30 Korea, Rep. of	**	2.0	10	1.7	10.3	3.0	
· ·	485.2	8.3	10,550	7.0	***	4.6	
31 Bahamas	84	4,5			6.0	3.4	
32 Malta	3.5	5.7		2,5	44	07	
33 Slovenia	19.5	300	9,330	5.1		21	
4 Chile	70.5	5.5	9,840	96	D+	94	
5 Kuwait	ts	1.3	4,820	3.8	16.0	2.9	
6 Czech Republic	54.0	110	0-à	-1.0	w tr	44	
7 Bahrain	5.2 a	86	5,240	do	11.5		
8 Antigua and Barbuda	0.5	the	8,640 *	64	0.3	9.1	
9 Argentina	319.3	9+ 4 ' a	7,380	94		2.7	
9 Uruguay	20.0	1.4	8,950	-0.1	162.9	10	
1 Qatar	20.0	1.3	6,130	0.7	62.9	1.9	
? Slovakia	**	1.0			V4.3	26.3	
United Arab Emirates	19.8	deg .	3,680	-5.5	Au -	md.	
Poland Poland	46	4.2		2.0	8.9	4.4	
Costa Rica	138.9	90	3,590	-3.5	10	**	
	9.3	3.7	2,680	0.0	68.0	18.7	
um human development	5,037.7 T	3.6		0.9	17.8	16.2	
Trinidad and Tobago	5.6		1,280	1.8	95.5	20.7	
Hungary	45.8	1.4	4,250	0.2	6.2		
Venezuela	79.3	0.9	4,510	1.1	18.9	4.2	
Panama	8.4	1.7	3,480	-1.0	42.0	21.2	
Mexico	348.6	2.7	3,080	0.5	1.5	115.7	
	370.0	2.8	3,700	0.6	40.7	1.7	

# 11 Economic performance

	GNP (US\$ billions)	GNP annual growth rate (%)	GNP per capita (US\$)	ENF per capita annual growth rate (%)	Average annual rate of inflation (%)		
HDI rank	1997	1975-95	1997	1975-95	1985-96	1996	
51 Saint Kitts and Nevis	0.3	40	6,260				
52 Grenada	0.3	49	3,140	àn	10	**	
53 Dominica	0.2	3.7	3,040	3.6	4.5	2.2	
54 Estonia	4.9	Wei.	3,360	Bh.	58.0	24.6	
55 Croatia	19.3	hd	4,060	49	44	**	
56 Malaysia	98.2	7.1	4,530	4.4	3.2	5.2	
57 Colombia	87.1	4.2	2,180	2.0	24.6	18.7	
58 Cuba	4.4	e 4	2.070	4.2	8.4	6,1	
59 Mauritius	4.4	5.4	3,870 2,150		0.4	49.4	
60 Belarus	22.1	69		**			
61 Fiji	2.0	2.4	2,460	0.8	4.7	5.3	
62 Lithuania	8.4	46	2,260	49	46.1	26.5 121.0	
63 Bulgaria	9.8	9.4	1,170	2.8			
64 Suriname	0.5	3.4	1,320		**	10	
65 Libyan Arab Jamahiriya	60	44	ps	*			
66 Seychelles	0.5	4.1	6,910	2.9	3.2	2.5	
67 Thailand	165.8	7.8	2,740	5.9	4.8	4.0 30.3	
68 Romania	31.8	1.2	1,410	8.0	57.8		
69 Lebanon	13.9	10	3,350	61	6,2	6.4	
70 Samoa (Western)	0.2	64	1,140	64	OIE.		
71 Russian Federation	394.9	-0.4	2,680	-0.8	**	43.8	
72 Ecuador	18,8	3.3	1,570	0.7	40.2	29.5	
73 Macedonia, TFYR	2.2	pe	1,100	4.0	52.2	18.0	
74 Latvia	6.0	-0.9	2,430	-1.0 4.5		10.0	
75 Saint Vincent and the Grenadines	0.3	5.4	2,420	4.3	20		
76 Kazakhstan	21,3	P4	1,350	P1		38.9	
77 Philippines	88.4	3.0	1,200	0.5	8.9	7.8 7.1	
78 Saudi Arabla	143.4	2.4	7,150	-2.4	1.4 569.8	17.2	
79 Brazil	784.0	3.5	4,790	1,5 -0.4	236.6	9,5	
80 Peru	63.7	1.8	2,610	-0.4	2,000	213	
81 Saint Lucia	0.6	6.6	3,510	50		24.4	
82 Jamaica	4.0	0.3	1,550	-0.9	26.5	21.4 6.3	
83 Belize	0.6	5.8	2,670	3.0	4.0 23.2	11.3	
84 Paraguay	10.2	4.3	2,000	1.2		F Tour	
85 Georgia	4.7	nþ	860	05	**		
86 Turkey	199.3	3.9	3,130	1.7	65.6	78.3	
87 Armenia	2.1	-2.0	560	-3.3	20.5	5.3	
88 Dominican Republic	14.1	3.0	1,750	0.8	20.5		
89 Oman	, **	7.5		2.6	10.9	10.8	
90 Sri Lanka	14.8	4.8	800	3.2	10.3		
91 Ukraine	52.6	69	1,040	44	61	66.2	
92 Uzbekistan	24.2	es	1,020	44		81.1	
93 Maldives	0.3	40	1,180	44	8.6	5.2 -2.0	
94 Jordan	6.8	4.0	1,520	4.6	4.6		
95 Iran, Islamic Rep. of	108.6	1.2	1,780	-1.6	46	**	
96 Turkmenistan	3.0	48	640	м	64	694.9	
97 Kyrgyzstan	2.2	ab	480	**		35.3	
98 China	1,055.4	9.1	860	7.7	9.2	5.8	
99 Guyana	0.7	-0.3	800	-0.9	30 A	14.6	
100 Albania	2.5	q b	760	ati	29.4	14.0	

# 11 Economic performance

	GNP (US\$ billions)	GNP annual growth rate (%)	GNP per capita (US\$)	GNP per capita annual growth rate (%)	anno of in	erage ual rate filation (%)
HDI rank	1997	1975-95	1997	1975-95	1985-96	1996
101 South Africa	130.2	1.7	3,210	-0.6	12.8	9.3
102 Tunisia	19.4	4.3	2,110	1.9	5.6	8.2
103 Azerbaijan	3.9	44	510	* **		4.8 20.4
104 Moldova, Rep. of	2.0	40	460	es e+	**	
105 Indonesia	221.5	7.1	1,110	5.1	8.6	0.5
106 Cape Verde	0.4				0.0	8.5
107 El Salvador	10.7	1.3	1,090		411	4.4
108 Tajikistan	2.0		1,810 330	-0.3	14.6	6.4
109 Algeria	43.9	2.7		44	- 0	491.0
110 Viet Nam	24.0		1,500 310	-0.1	21.0	23.5
111 Syrian Arab Republic		N		**	85.4	6.1
112 Bolivia	16.6	4.6	1,120	1.3	15.7	9.0
113 Swaziland	7.6	77	970	40	24.2	14.4
114 Honduras	1.5	5.1	1,520	1.8	11.8	10.0
115 Namibia	4.4	3.7	740	0.5	14.8	21.2
	3.4	#4	2,110	10	10.7	10.0
116 Vanuatu	0.2	44	1,340			
117 Guatemala	16.6	2.5	1,580	-0.1	6.2	2.9
118 Solomon Islands	0.4	5.9	870	2,3	17.4	8.9
119 Mongolia	1.0	11	390		10.8	20.7
120 Egypt	72.2	6.6	1,200	4.1	43.4	21.0
121 Nicaragua	1.9			4.1	14.8	9.1
122 Botswana	5.1	-1.2	410	-4.0	531.0	-4.4
123 São Tomé and Principe	(.)	9.8	3,310	6.3	12.1	9.2
124 Gabon	4.8	2.3	290	0.1	44	51.0
125 Iraq		0.2	4,120	-2.9	3.8	12.7
126 Morocco	01	99	44	**	48	du
127 Lesotho	34.4	3.6	1,260	1.4	4.9	
128 Myanmar	1.4	3.8	680	1.3	11.1	1.8
129 Papua New Guinea	99	99	0.0	10	24.6	6.1
130 Zimbabwe	4.2	3.0	930	0.7	5.5	23.3
	8.2	1.8	720	-1.2	18.7	5.4
131 Equatorial Guinea	0.4			V 4-0p.		28.1
132 India	357.4	5.0	1,060	**	6.1	25.7
133 Ghana	7.0	2.4	370	2.8	9.0	6.3
134 Carneroon	8.6	4.1	390	-0.4	31.3	39.1
135 Congo	1.8	3.2	620	1.2	3.1	5.5
136 Kenya			670	0.3	2.1	15.2
137 Cambodia	9.7	4.0	340	0.5	12.2	8.8
138 Pakistan	3.2 64.6	**	300	Ag	10	6.8
139 Comoros	64.6 0.2	6.0	500	3.1	9.2	. 10.5
		2.7	400	**	4.0	2.3
w human development	177.8 T	2.3	274	-0.4		
40 Lao People's Dem. Rep.	1.9			0.9	71.0	286.7
41 Congo, Dem. Rep. of the	5.2	-2.4	400	10	22.0	12.9
42 Sudan ·	7.9	2.4	110	-5.4	636.4	613.1
3 Togo	1.5	1.6	290	-0.2	110	48
4 Nepal	4.9	4.3	340	-1,4	5.4	4.9
5 Bhutan	0.3		220	1.6	11.0	7.8
6 Nigeria		44	430	â=	4+	44
7 Madagascar	33.4	2.5	280	-0.6	34.1	34.2
3 Yemen	3.6	0.3	250	-2.3	20.1	
Mauritania	4.4	n n	270	60 p.m/f		17.9
Bangladesh	1.1 44.1	2.5	440	-0.2	6.5	3.6
MINISTRALICATION I	441	4.4	360	W PRINCE	D. 3	7 77

#### 11 Economic performance

	GNP (US\$ billions)	GNP annual growth rate (%)	GNP per capita (US\$)	GNP per capita annual growth rate (%)	Average annual rate of inflation (%)		
HDI rank	1997	1975-95	1997	1975-95	1985-96	1996	
151 Zambia	3.5	0.8	370	-2.2	74.4	22.5	
152 Haiti	2.9	0.4	380	-1.5	16.6	21.2	
153 Senegal	4.8	2.2	540	-0.5	4.4	3,7	
154 Côte d'Ivoire	10.2	1.7	710	-1.8	3.2	3.7	
155 Benin	2.2	3.6	380	0.5	5.6	6.7	
156 Tanzania, U. Rep. of	6.6	40	210	RE	0-0	**	
157 Djibouti	м	hø	1a	14	14	49	
158 Uganda	6.6	**	330	00	60.3	6.1	
159 Malawi	2.1	2.5	210	-0.6	25.9	39.0	
160 Angola	3.0	0.0	260	49	297.0	5,427.1	
161 Guinea	3.8	el	550	Pd	An	2.5	
162 Chad	1.6	3.0	230	0.4	4.0	14.1	
163 Gambia	0.4	3.6	- 340	0	11.0	2.9	
164 Rwanda	1.7	1.4	210	-0.5	11.2	10.5	
165 Central African Republic	1.1	8.0	320	-1.5	3.1	-0.8	
166 Mali	2.7	2.9	260	0.4	4.9	6.3	
167 Eritrea	0.9	b a	230	84	80	49	
168 Guinea-Bissau	0.3	1.4	230	-1.3	62.5	48.1	
169 Mozambique	2.4	as	140	e 44	50.9	41.9	
170 Burundi	0.9	2.7	140	0.1	6.6	19.6	
171 Burkina Faso	2.6	3.7	250	1.3	3.3	4.3	
172 Ethiopia	6,5	bs	110	69	5.0	1.5	
173 Niger	2.0	1.5	200	-1.8	2.4	4.8	
174 Sierra Leone	0.8	-0.7	160	-2.8	58.3	26.3	
All developing countries	5,725.6 T	4,4	1,314	2.3	88.8	25.3	
Least developed countries	136.2 T	2.3	260	-0.2	94.9	412.5	
Sub-Saharan Atrica	299.0 T	2.0	522	-0.9	44.7	168.8	
Arab States	324.2 T	3.2	1,754	0.5		**	
East Asia	1,705.4 T	8.8	1,330	7.3	8.0	5.1	
East Asia (excluding China)	650.0 T	8.1	11,811	6.8	6.4	3.9	
South-Fast Asia and the Pacific	711.8 T	6.6	1,556	4.4	6.4	6.0	
South Asia	595.0 T	3.7	452	1.4	8.9	6.7	
South Asia (excluding India)	237.6 T	2.2	670	-0.3	8.6	8.4	
Latin America and the Caribbean	1,890.9 T	2.8	3,953	0.7	263.7	22.4	
Eastern Europe and the CIS	897.8 T	*1	2,249	.,	44	40.6	
Industrialized countries	22,785.7 T	2.6	27,174	1.9	3,0	2.0	
World	29,409.1 T	2.8	5,257	1.1	17.8	7.9	

a. Data refer to 1996.

Source: Columns 1 and 3: World Bank 1999b; columns 2 and 4-6: calculated on the basis of data from World Bank 1999b.

					Cons	umption	Gross	Gross		Central	Overall
HDI rank	GDP (US\$ billions) 1997	Agriculture (as % of GDP) 1997	Industry (as % of GDP) - 1997	Services (as % of GDP) 1997	Private (as % of GDP) 1997	Govern- ment (as % of GDP) 1997	domestic investment (as % of GDP) 1997	domestic savings (as % of GDP) 1997	Tax revenue (as % of GDP) 1997	government expenditure (as % of GDP) 1997	
High human development	23,120.9 T	2	24	64	63	16	21	22	26	29	
1 Canada	607.7	**	ÞF	**	58 a	21 a	18 0	21 a	20	29	-1.1
2 Norway	153.4	22	32 a	66 a	48 a	20 a	23 4	32 a	22.0	70	**
3 United Statea	7,834.0	2*	27 a	71 =	68 a	16 *	18 a	16 a	33 *	37 a	5.1 4
4 Japan	4,190.2	21	38 a	60 a	60 a	10 a	30 a	30 a	20 ª	22 *	-0.3
5 Belgium	242.5	1 a	49-	78 a	63 #	15 a	18 4	22 a	99	nd	44
6 Sweden	227.6	ėw.	ad		52 a	26 *			4.6	AD	0+
7 Australia	393.5	3+	26 ª	71 -	63 a		15 *	21 **	37 1	44 *	-1.3
8 Netherlands	360.3	ėn.	44		60 ≥	17 *	20 a	21 *	23 4	26 a	0.4
9 Iceland	7.3 a	46	**	110	61	14 ª	20 4	26 ª	43 *	48 *	-1.7
10 United Kingdom	1,286.5	2 *	31 a	67 a	64 a	21 21 *	18	18	27	32	-0.9 °
11 France	1,392.5	2 *					16 ª	15 *	0.0	**	σl
12 Switzerland	255.3		26 ª	72.4	61 *	19 4	17 ×	20 ª	39 *	47 •	-3,5
13 Finland	119.8	4.0	24.8		61 ª	14 3	20 *	24 *	21 *	26 4	-1.2 ª
14 Germany	2,092.3	13	34 °	62 a	53 a	22 ª	17.4	25 ₹	28 4	40 a	-6.3 4
15 Denmark	170.0		ůν	44 =	58 a	20 ª	21 *	22 *	27 *	33 *	-1.4
16 Austria		81	n h	**	50 a	26 4	19.4	24 4	99	61	40
17 Luxembourg	206.2	14	30 s	68 4	57 ª	20 *	24+	23 *	34 4	42 *	
18 New Zealand	17.0 *	40	44	88	55 a	14 =	21.4	31 4	44 *	42 *	-4.1 4
19 Italy	64.6	Fig. 1	М		63 a	14 *	22 4	22 =	31 4	32 *	4.9 ª 4.0
20 Ireland	1,145.6	3 *	16	75 ª	61 a	16 ª	17.4	22 *	42 *	48 *	-3.1
	75.0	44	16	94	53 ª	14.2	18 =	33 •	44		
21 Spain	532,0	3 *	417	25 4	62 a	16 ª	21 *		45	64	41
22 Singapore	96.3	(,)	35	65	39	9	37	21 *	- 0		•
23 Israel 24 Hong Kong, China (SAR)	98.1	with	49	ap	62 *	29 a	22 *	51 9 a	16	17	11.6
25 Brunei Darussalam	171.4	(,)	15	84	61	9	34	31	37 4	48 4	0.4
	5,3	n4	25	90	10				011	9.0	41
26 Cyprus	8.2	14	70			**	9.0	8.0	PH .	10	4+
27 Greece	122.9		20	8.6	75 4	4.4.4	49	10	11-	40	10
28 Portugal	102.1	54	20	**	65	14 *	19 *	11.4	20 *	33 a	-8.6 °
29 Barbados	we	s à	0.0	0.0 P.1		18	24	ы	31	42	-2.3 ª
30 Korea, Rep. of	442.5	6	43	51	55	11	11	**	10 10	ås	
31 Bahamas	3.8				23	-11	35	34	19	19	-1.4
32 Malta	3.3	40	No.	vd	**	Ph.	du	10		9.6	**
33 Slovenia	18.2	5	39	 F3	64	21	25	15	29		-9.8
34 Chile	77.1	7	31	57	57	20	24	23	5.6	**	*1
35 Kuwait	30.4	60		61	66	10	27	25	19	21	1.9
36 Czech Republic	52.0		Rep.	44	47	28	13	25	1	42	94
37 Bahrain	6.1 a	44	Bd	46.	51	20	34	28	33		-1.1
38 Antigua and Barbuda		91	B+	11	42	20	5	38	7		-5.5
39 Argentina	325.0	7	40	н	44	ba	48	**			
40 Uruguay	20.0		33	61	78	3	20	18	11	14 -	-1.3
41 Qatar	4.010	0	27	64	74	14	13	12	28		-1.3
42 Slovakia		20	44	44	40					34	110
13 United Arab Emirates	19.5	5	33	62	49	22	35	20	44	4+	
4 Poland	**	40	44	44	45	11		28	**	**	
5 Costa Rica	135.7	40	70	10	64	18	22	10		**	
	9.5	15 2	13	62	63	12		1 <b>8</b> 25	35 23		1.4
lium human development	4,974.3 T	13 3	7	50	61	13					3.9 <sup>a</sup>
Trinidad and Tobago	5.9	2 4	6	52	75			26	13	18 -	1.9
Hungary	45.7	-			63 a	10		15	44	20	н
Venezuela	87.5	4 4			67	10 *		27 a	33 a		2.6
Panama	8.2	_				6		27	18	21 2	2.2
Mexico				7 ×5 III	53 a	15 a	29 a	32 a	16 ª		).7 ª

#### 12 Macroeconomic structure

					Consu	mption	Gross	Gross		Central	Overali budget
HD1 rank	GDP (US\$ billions) 1997	Agriculture (as % of GDP) 1997	Industry (as % of GDP) 1997	Services (as % of GDP) 1997	Private (as % of GDP) 1997	Govern- ment (as % of GDP) 1997	domestic investment (as % of GDP) 1997	domestic savings (as % of GDP) 1997	Tax revenue (as % of GDP) 1997	government expenditure (as % of GDP) 1997	
51 Saint Kitts and Nevis	0.2	6	25	70	39	41	46	14	44	40	
52 Grenada	0.3	10	20	70	70	17	33	44	**		**
53 Dominica	0.2	20	21	59	59	21	33	20	44	84	**
54 Estonia	4.7	7	28	65 '	59	23	30	18	30	32	2.4
55 Croatia	19.1	66	80		66 a	30 °	15 4	3 *	43 *	47 *	-0.5 a
56 Malaysia	98.5	12	47	41	45	11	43	44	19	20	3.0
57 Colombia	95.7	11	20	69	68	16	19	16			
58 Cuba									10	R4	11
59 Mauritius	4.4	9	33	58	64	12	28	24	18	24	-4.0
	22.6	14	44	42	59	19	26	22	29	34	-1.9 a
60 Belarus											
61 Fiji	2.1	18	26	56	73	16	12	11	21	30	-4,9 a
62 Lithuania	9.6	13	32	55	65	19	27	16	25	27	-1.9
63 Bulgaria	10.1	23	26	50	70	12	12	17	25	34	2.1
64 Suriname	8.0	9.0	44	н	84	44	an.	46	80	49	
65 Libyan Arab Jamahiriya	61	#0	90	84	40	44	D-8	14		14	*1
66 Seychelles	0.5	4	23	73	50	28	36	22	94	1.0	
67 Thailand	153.9	11	40	49	54	10	35	36	16	19	-0.9
68 Romania	34.8	20	45	36	75	10	21	14	24	31	-4.0 a
69 Lebanon	15.0	12	27	61	101	16	27	-17	14	38	-20.6 a
70 Samoa (Western)	0.2							60			2010
		411	*1	н	80	10				**	41
71 Russian Federation	447.0	8	37	55	63	12	22	25	**	**	**
72 Ecuador	19.8	12	35	53	67	12	20	21	P4	*1	
73 Macedonia, TFYR	2,2	12	27	61	85	12	19	3		61	**
74 Latvia	5.5	7	31	62	67	23	20	10	29	32	0.9
75 Saint Vincent and the Grenadines	0,3	13	25	62	53	27	32	nd.	26	32	-2.1
76 Kazakhstan	22.2	12	27	61	81	5	16	13	**	ès	49
77 Philippines	82.2	19	32	49	73	13	25	15	17	19	0.1
78 Saudi Arabia	140.4	6	45	49	35	30	20	35	16.6	44	0.0
79 Brazil	820.4	8	35	57	63	18	21	19	41	**	80
80 Peru	63.8	7	36	57	67	12	25	21	14	16	0.3
		44	20	70	69	14	19			-	**
81 Saint Lucia	0.6	11	20	70	68 61	18	35	22	44	49	
82 Jamaica	4.1	8	35	57	59	19	24	21	+4	pa .	"
83 Belize	0.6	23	28	49	67	13	23	20	**	49	/
84 Paraguay	10.2	23	22	55		9	7	-4	5	10	-2.7
85 Georgia	5.2	32	23	45	95						
86 Turkey	189.9	15	28	57	68	12	25	19	15	27	-8.4 *
87 Armenia	1.6	41	36	23	116	13	9	-29	**	41	41
88 Dominican Republic	15.0	12	32	55	70	8	25	22	14	16	-0.3 °
89 Oman			44	84	np.	40	86	44	69	14	11
90 Sri Lanka	15.1	22	26	52	72	10	24	17	16	26	-4.5
91 Ukraine		12	40	48	62	22	20	16		64	
92 Uzbekistan	49.7	31	27	42	61	21	19	19	89	4.0	63
	25.0						80	84	21	48	-4.9
93 Maldives	0.3		76	71	69	25	29	6	22	35	-1.4 *
94 Jordan	7.0	3	25					40	**	+1	**
95 Iran, Islamic Rep. of	0.0	44	26	Ph.	94	**	10		.,		
96 Turkmenistan	4.4	40	sk	**	41	+4	84	44	**	**	**
97 Kyrgyzstan	1.8	45	23	33	69	17	22	14	**	"	4.50
98 China	902.0	19	49	32	46	12	38	43	5	8	-1.6 ª
99 Guyana	0.8	pb.	45	**	59	18	32	23	**	**	**
100 Albania	2.5	63	18	19	103	11	12	-13	.,	4.9	14

#### 12 Macroeconomic structure

					Consu	mption	Gross	Gross		Central	Overall budget
HDI rank	GDP (US\$ billions) 1997	Agriculture (as % of GDP) 1997	Industry (as % of GDP) 1997	Services (as % of GDP) 1997	Private (as % of GDP) 1997	Govern- ment (as % of GDP) 1997	domestic investment (as % of GDP) 1997	domestic savings (as % of GDP) 1997	Tax revenue (as % of GDP) 1997	government expenditure (as % of GDP) 1997	surplus/ deficit (as % of GDP) 1997
101 South Africa	129.1	5	39	57	62	21	16	17	28	34	-3.8
102 Tunisia	18.9	13	29	58	60	16	27	24	25	33	-3.14
103 Azerbaijan	4.4	22	18	60	83	8	28	10	**	**	**
104 Moldova, Rep. of 105 Indonesia	1.9 215.0	31	35	34	74	26	24	(.)	93	84	A4
		16	43	41	63	7	31	31	15	15	1.2 4
106 Cape Verde 107 El Salvador	0.4	9	21	70	84	20	34	-4		**	
108 Tajikistan	11.3 2.0	13	28	60	86	9	15	4		**	4.3
109 Algeria	47.1	11	49	39	51	14	26	35	24	20	201
110 Viet Nam	24.8	26	31	43	70	9	29	21	31	30	3.0 ª
111 Syrian Arab Republic	17.9								4.0		
112 Bolivia	8.0	16	33	51	69 75	12 15	29 19	19 10	16 15	24	-0.2 4
113 Swaziland	1.3	19	42	40	53	27	34	19		22	-2.3
114 Honduras	4,5	20	28	52	63	15	32	22	**	**	
115 Namibia	3.3	11	33	56	55	31	20	14	10	**	
116 Vanuatu	0.3	25	12	63	44	10	tel.				
117 Guatemala	17.8	24	20	56	87	5	14	8		Au Au	
118 Solomon Islands	0.4	**	141	0	wd	No.	211	44	20	46	
119 Mongolia	0.9	37	23	40	64	16	22	18	19	22	-6.6 a
120 Egypt	75.6	18	32	51	77	10	18	13		**	
121 Nicaragua	2.0	34	22	44	84	13	28	3	99	6.0	
122 Botswana	5.1	3	48	49	28	27	26	45	16	39	9.4 ª
123 São Tomé and Principe 124 Gabon	(.)	23	19	58	71	45	50	-16			
125 Irag	5.2	7	55	37	38	14	26	48	44	u	D
126 Morocco	77.5	**	**	80	89	90	de	=4	00	94	tre
127 Lesotho	33.5 1.0	15	33	51	65	18	21	17	te	99	
128 Myanmar		11 59	42 10	47 31	82	28	86	-10	31	40	1.0
129 Papua New Guinea	4.6	28	36	. 36	44	23	13 37	12 .	4	10	-3.2 ª
130 Zimbabwe	0.9	19	25	56	72	16	19	33 12	**	4.6	
131 Equatorial Guinea	0.5	23	67	10					* ±	**	**
132 India	381.6	25	30	45	20 70	13 10	96 24	68	44		
133 Ghana	6.9	36	26	39	80	10	24	20 10	11	16	-4.9
134 Cameroon	9.1	41	21	38	71	8	16	21	**	**	•
135 Congo	2.3	10	57	33	. 46	19	26	35	**	44	
136 Kenya	10.2	29	16	56	72	17	19	11	23	29	-0.9
137 Cambodia	3,0	51	15	34	87	9	16	4			
138 Pakistan	61,7	25	25	50	78	12	15	10	13	23	-7.9
139 Comoros	0.2	39	13	49	89	14	21	-3	**		
Low human development	191.6 T	32	30	38	76	10	18	15	**		.,
140 Lao People's Dern, Rep.	1.8	52	21	26	81	7	29	11		**	• •
141 Congo, Dem. Rep. of the	6.1	58	17	25	83	8	7	9	**	44	**
142 Sudan	10.2	10	н	20	91			*1	E9	**	**
143 Togo	1.5	42	21	37	80	10	16	10	14	49	P4
144 Nepal - 145 Bhutan	4.9 0.4	41	22	36	81	9	21	10	9 '	17	-4.1
		38	38	25	39	29	43	32	6	33	-2.2
146 Nigeria	39.9	33	47	20	70	9	15	22	0 ti	4=	15
147 Madagascar 148 Yemen	3.5	32	14	55	89	7	12	4	8	17	-1.3 a
148 Temen 149 Mauritania	5.7	18	49	34	68	19	21	13	13	39	-2.5
150 Bangladesh	1.1 41.4	25 24	29 27	46 49	79 81	12	18	9	**		
						4	21	15			

#### 12 Macroeconomic structure

					Consu	mption_	Gross	Gross		Central	budget
HDI rank	GDP (US\$ billions)	Agriculture (as % of ) GDP) 1997	landustry (as % of GDP) 1997	Services (as % of GDP) 1997	Private (as % of GDP) 1997	Govern- ment (as % of GDP) 1997	domestic investment (as % of GDP) 1997	domestic savings (as % of GDP) 1997	revenue (as % of GDP) 1997	government expenditure (as % of GDP) 1997	deficit (as % of GDP) 1997
	3.9	16	31	52	78	12	15	10	17	21	0.7 4
151 Zambia	2.8	30	20	50	97	7	10	-4			**
152 Haiti	4.5	18	22	59	77	10	19	13	41	10	84
153 Senegal	10.3	27	21	51	65	12	16	23	+4	44	**
154 Côte d'Ivoire 155 Benin	2.1	38	14	48	79	10	18	11	44	**	**
	6.9	47	21	31	83	13	20	81	81	48	24
156 Tanzania, U. Rep. of	0.5	4	21	76	78	28	9	-6	87	49	84
157 Djibouti	6.6	44	17	39	83	10	15	8			**
158 Uganda	2.5	36	18	46	85	13	12	2	**	#4	14
159 Malawi 160 Angola	7.7	9	62	29	30	43	25	27	80	**	
		23	35	42	74	7	22	19		10	
161 Guinea	3.9	39	15	46	92	7	19	1	42		**
162 Chad	1.6	30	15	55	85	- 11	18	4	*1	44	**
163 Gambia	0.4	37	26	36	99	9	11	-7	27		45
164 Rwanda 165 Central African Republic	1.9 1.0	54	18	28	84	9	9	7	**		
			17	34	74	12	23	14		4+	**
166 Mali	2.5	49	30	61	85	33	41	-17		34	**
167 Eritrea	0.7	9	11	35	88	7	24	5		91	89
168 Guinea-Bissau	0.3	54	24	45	76	10	30	14	14	84	**
169 Mozambique	2.8	31 53	17	30	83	15	7	3	13	24	-5,5
170 Burundi	1.0					12	25	9	м	ės.	p+
171 Burkina Faso	2.4	35	27	38	79 80	11	19	9	All	£4	**
172 Ethiopia	6.4	55	7	38	83	14	11	3	**	H	**
173 Niger	1.9	38	18	44 29	98	10	-5	-8	10	18	-6.0
174 Sierra Leone	8.0	50	21		30						
All developing countries	5,639.5 T	13	36	51	61	12	27	27		**	26
All developing countries	143.3 T	33	25	42	79	11	20	11	**	**	+4
Least developed countries Sub-Sanaran Africa	304.3 T	20	34	46	66	17	18	17	**	**	**
Arao States	408.2 T				55	21	21	24	**		
East Asia	1,516.8 T	13	44	43	50	11	37	39	10	12	-1.5
East Asia (excluding China)	614 8 T	4	36	60	56	11	35	33	19	19	-1.4
South Hast Asia and the Pacific	688.3 T	13	40	47	56	10	34	34	16	17	2.3
South Asia	505.4 T	25	29	46	72	10	23	18	11	18	-5.2 -7.0
South Asia (excluding India)	123.8 T	25	26	49	78	9	19	13	13	23	
Latin America and the Caribbean	2,018.4 T	8	32	60	67	12	22	21	**	**	
Eastern Europe and the CIS	947.3 1	11	36	53	64	15	23	22	36.3		·1.2 ³
Industrialized countries	21,700.0 T		,,	64 a	63 °	16 ª	21 ª	21 °	26 °	30 °	
Word	28,286.8 T		**	44	14		**	**		**	40

Note: The percentage shares of agriculture, industry and services may not sum to 100 because of rounding.

Source: Columns 1-11: World Bank 1999b.

Overall

a. Data refer to 1996.

# 13 Resource use

			Public ex	penditure			Trad	e in convent (1990 p		pons	Tota armed f	
		penditure		ealth	Mi	ilitary	lim	ports		orts		Index
HDI rank		of GNP)	As % of GNP 1960	As % of GDP 1995	expe (as %	of GDP)		Index (1991 = 100)		Share (%)	Thousands	(1985 = 100)
1107 14111	1303	1330	1900	1995	1988	1996	1997	1997	1997	1993-97	1997	1997
High human development	5.1	5.1		6,1	3.6	2.3	***	40	97	pu	5,421 T	79
1 Canada	6.6	7.0		6.9	2.0	1.4	97	10	81	1.2	62	74
2 Norway	5.9	7.5	14	6.6	3.0	2.3	155	62	56	0.4	34	91
3 United States	4.9	5.4	**	6.5	5.8	3.6	656	148	10,840	46.9	1,448	67
4 Japan 5 Belgium	6.2	3.6	**	5.6	1.0	0.1	584	24	3	0.1	236	97
		3.2	nd	6.9	2.7	1.6	34	15	93	0.4	45	49
6 Sweden 7 Australia	7.7	8.3	14	7.1	2.5	2.4	123	tin	273	8.0	53	81
8 Netherlands	5.6 6.4	5.6 5.2	14	5.8	2.7	2.3	215	85	318	0.4	57	82
9 Iceland	4.9	5.4	F4	6.8 6.9	2.9	2.0	93	31	504	1.9	57	54
10 United Kingdom	4.9	5.4	MI +4	5.9	4.2	3.0	71	8	2,631	8.3	214	e c
11 France	5.8	6.1		8.0					-			65
12 Switzerland	4.8	5.3	**	6.9	3.8 1.8	3.0 1.5	160 391	16	3,343	6.9	381	82
13 Finland	5.4	7.6		5.8	1.5	1.6	492	166 502	72	0.3	26 31	132
14 Germany	**	4.8		8.1	2.9 °	1.7	702	302	569	6.3	347	85 73
15 Denmark	7.2	8.2	+5	6.9	2.1	1.8	46		200	0.0	33	111
16 Austria	5.9	5.7	**	5.9	1.1	0.9	139					
17 Luxembourg	3.8	4.1	**	6.2	1.3	0.7	133	64	42	110	46 1	83 114
18 New Zealand	4.7	7.3	**	5.7	2.2	1.2	343	49	0-0	90	10	77
19 Italy	5.0	4.7	**	5.4	2.3	1.9	552	484	408	1.6	325	84
20 Ireland	6.4	5.8		5.2	1.1	1,1	64	141		No.	13	93
21 Spain	3.3	4.9	**	5.8	2.1	1.5	316	251	639	2.5	198	62
22 Singapore	4.4	3.0	1.0	1.5	4.7	4.3	108	34	м	2.4.3	70	127
23 Israel 24 Hong Kong, China (SAR)	7.0	7.2		**	13.0	8.7	41	3	335	1.0	175	123
25 Brunei Darussalam	2.8 2.1	2.9 3.1	**	2.3		**	**	**	**			
		3.1	PA	0.8	6.2	**	**	**	**	**	5	122
26 Cyprus 27 Greece	3.7	24	0.6	**	3.9	3.4	110	66			10	100
28 Portugal	2.9	3.0	4+	4.4	5.2	4.5	715	126	41	44	162	81
29 Barbados	4.0 6.1	5.5 7.2	3.0	5.0	2.8	2.4	14	1	**	10	59	81
30 Korea, Rep. of	4.5	3.7	0.2	4.4 1.9	4.0			14	0.0	10	1	60
31 Bahamas		3,,	0.2		4.0	3.2	1,077	273	12	0.1	672	112
32 Malta	4.0 3.4	**	**	2.5		н	**	+=		**	1	180
33 Slovenia	21.99	5.8	**	7.1	1.3	0.1		**	4.4		2	250
34 Chile	4.4	3.1	2.0	7.1 2.3	2.3	1.6			44	96	10	
35 Kuwait	4.9	5.7		3.5	8.2	1.6 11.9	180 411	212 67	00	81	94	93
36 Czech Republic	86	5.4		6.9			411	07	0.0	20	15	128
37 Bahrain	4.1	**	14	0.9	5.5	1.8 5.4	13	20	19	0.9	62	04
38 Antigua and Barbuda	2.7	**	44	3.7	J. J		13	26	49	42	11	393
39 Argentina	Ble	3.5	1,3	4.3	1.6	1.2	148	**			0 73	200 68
40 Uruguay	2.8	3.3	2.6	1.9	2.1	1.5	**	tra Au	40	02	26	80
41 Qatar	4.1	3.4	**	79	н		286					
42 Slovakia	+1	4.9	+ 5	6.1	P1	2.3	200	8.0	29	0.1	12 41	197
43 United Arab Emirates 44 Poland	1.7	646	**	2.0	6.7 d	4.5	808	636	90	64	65	150
45 Costa Rica	4.9 4.5	5.2		4.2	2.5	2.8		**	18	0.3	242	76
Medium human development		5.3	3.0	6.0	0.5	**	**		**	-	44	**
46 Trinidad and Tobago	4.0	3.8	0.9	2.2	6.0	2.5		1+		10	13,603 T	92
47 Hungary	6.1 5.5	3.7	1.7	2.1				64	*1	44	2	100
48 Venezuela	5.1	4.7	3.6	4.9	3.4	1.6	**	188	**	49	49	46
49 Panama	4.6		2.6 3.0	1.0	1.5	1.0 d	**	**	**	4+	56	114
50 Mexico	3.9	4.9	1.9	4.7 2.8	2.1 0.5	1.2		**	#4	4.6	**	
				2.0	V.3	0.4	96	м	44	80	175	9

### 13 Resource use imbalances

			Public av	penditure			Trad	e in convent (1990 p		apons	Tot armed	
	Public ex	penditure		ealth	0.000	tary	lm	ports		orts	armea	Index
	on edu	cation	As % of	As % of	exper	diture	US\$	Index	US\$	Share		(1985
and and	(as % o	1996	GNP 1960	GDP 1995	(as % i	of GDP) 1996	millions 1997	(1991 = 100) 1997	millions 1997	(%) 1993-97 <sup>h</sup>	Thousands 1997	= 100) 1997
IDI rank	1303	1330	1900	במבו	1300	1330	1997	1997	1997	1993-97"	1997	1997
51 Saint Kitts and Nevis	5.8	3.8	80	3.1	**	**	**	**	14		**	91
52 Grenada	40	An	80	2.7	80	24	40	41	40	44	**	44
53 Dominica	5.9	00	44	3.9	**	up.	P1	de	69	ber .	41	44
54 Estonia	pe	7.3	=	5.8	14	1.2	91	41	00	10	4	**
55 Croatia	**	5.3	94	8.5	12	14.5	37	4.9	14	**	58	**
56 Malaysia	6.6	5.2	1.1	1.3	2.5	2.4	1,346	49	11	11	112	101
57 Colombia	2.9	4.4	0.4	2.9	1.3	às	190	84	88	40	146	221
58 Cuba	6.3	41-	3.0	7.9	git	40	411	Pt	41	40	60	37
59 Mauritius	3.8	**	1.5	2.2	0.2	0.3	44	84		**	10	11
60 Belarus	10	6.1	**	5.3	60	1.2	dh	84	263	0.4	82	**
61 Fiji	6.0	**	68	h-b	2.2	44	**	ap	00	én.	4	133
62 Lithuania	5.3	5.6	44	5.1		0.5		40	90	80	5	41
63 Bulgaria	5,5	3.3	**	3.6	4.6	1.8	40	10	4.6	44	102	68
64 Suriname	9.4	-11	64	2.0	**	94	11	**	44		2	90
65 Libyan Arab Jamahiriya	7.1	44	1.3	м	64	44	44		**	44	65	89
											0	17
66 Seychelles	10.7	7.6	0.4	4.1	4.3 2.7	2.2 1.9	1,031	164	**	**	266	113
67 Thailand	3.8	4.1	0.4	2.0	3.3	3.5	12	32	9.0	**	227	120
68 Romania	2.2	3.6	99	3.6		6.3	10		84	10	55	317
69 Lebanon	96	2.5	bel	5.3	94			14	10	9.0		
70 Samoa (Western)	89	34		3.3	01	**	86	" 99				44
71 Russian Federation	3.2	4.1	An	4.3	15.8	3.7 4	61	\$ n	3,466	13.5	1,240	47.4
72 Ecuador	3.7	3.5	0.4	2.0	2.0	66	PP	0.6	va va	84	57	134
73 Macedonia, TFYR	5.5	5.6	89	7.4	14		10	84	6.6	00	114	20
74 Latvia	3.4	6.5	10-	4.4	44	8.0	40	16	50	94	5	8.8
75 Saint Vincent and the Grenadines	5.8	44	49	5.3	84	tie.	44	84	11	44	84	**
76 Kazakhstan	86	4.7	160	2,2	44	**	172	14	44	14	35	11
77 Philippines	1.4	2.2	0.4	04	1.9	1.6	47	н	41	91	111	96
78 Saudi Arabia	6.7	49	0.6	61	17.6	13.2 d	2,370	178	84		163	260
79 Brazil	3.8	5.2	0.6	1.9	1.4 4	1.9	384	233	28	0.1	315	114
80 Peru	2.9	2.9	1.1	2.2	2.0	1.3	258	D	14	**	125	98
81 Saint Lucia	5.5	9,8	84.	2.5	91	64	91	14	H	44	pá	44
82 Jamaica	5.7	7.5	2.0		40	60	60	68	49		3	157
83 Belize		5.0		6.0	1.3	100	89	14	44	41	1	183
84 Paraguay	1.5	3.9	0.5	1,8	1.0	1.3 4	46	àd	40		20	140
85 Georgia	100		11	0.6	88	1.3	11	24	46	99	33	41
			0.8	2.4	3.0	4.3	1,276	134 .	14	10	639	101
86 Turkey 87 Armenia	1.8	2.2 2.0		3.1		24.0	.,		64	10	60	ę.e
88 Dominican Republic	1.8	2.0	1,3	1,8	60	64	ne.	41	**	84	. 25	110
89 Oman	4.0			9,00	20.1	13.2	173	99		**	44	1,740
90 Sri Lanka	2.6	3.4	2.0	1.4	2.1	6.0 d	41	911	80	44	117	542
			2.10						399	1.0	387	44
91 Ukraine	5.2	7.2	10	4.9	80	4.5	6.0	40	40	at	70	
92 Uzbekistan	49	8.1	ψ×	3.5	09	An	84	84	40	44	**	100
93 Maldives	4.4	6.4	n	3.7	11.6	8.8	62		41		104	148
94 Jordan	5.5	7.3	0.6	3.7	11.4 3.2	2.5	11	6	61	40	518	170
95 Iran, Islamic Rep. of	3.6	99	8.0	1.4	3.2	4.13			•			
96 Turkmenistan	a»	100	00	1.2	0.0	94	44	0-0	69	ab	18	н
97 Kyrgyzstan	7.9	5.7	3.0	3.5	**	**	4.045	9 202	170	3.1	12	72
98 China	2.5	2.3	1.3	***	1.6	1.1	1,816	1,203	170	3.1	2,840	73 24
99 Guyana	9.8	4.9	8.6	4.3	3.3	8.0	00	44	44	**	2	
100 Albania	19	3.1	60	2.5	5.6	1.5	6.0	ы	**	40	54	134

## 13 Resource use imbalances

HDI rank  101 South Africa 102 Tunisia 103 Azerbaijan	Public exp on edu (as % o 1985	cation	As % of GNP	ealth As % of	Mili	itary	Im	ports	Ехро	orts		Index
101 South Africa 102 Tunisia	(as % o	f GNP)		As % of						710		DIRECT
101 South Africa 102 Tunisia	1985		GNP			diture	US\$	Index '	US\$	Share		(1985
102 Tunisia			1960	GDP 1995	1988	of GDP) 1996	millions 1997	(1991 = 100) 1997	millions 1997	(%) 1993-97 <sup>6</sup>	Thousands 1997	~ 100) 1997
102 Tunisia												
		7.9	0.5	84	4.3	2.1	8	840	1	0.1	79	75
	5.8	6.7	1.6	4.4	2.7	1.8	37	41	40	н	35	100
104 Moldova, Rep. of	5.7	3.3	10	1.1	86		81	27	202	41	67	**
105 Indonesia	14	9.7	0.3	5.8	4.22	0.8	474	101	392	0.5	11	400
	16	1.4	0.3	0.7	1.7	1,3	171	72	13	0.1	284	102
106 Cape Verde	3.6	44	46	3.3	1.8	bu	**	40	44	6.0	1	14
107 El Salvador	3.1	2.2	0.9	2.4	2.8	0.9	10	**	ph.	99	28	68
108 Tajikistan	49	2.2	46	5.8	80	99	10	46	**	99	9	
109 Algeria	8.5	5.2	1.2	44	1.9	3.4	40	**	**	09	124	73
110 Viet Nam	14	2.7	44	010	ker	a b	84	69	**	41	492	48
111 Syrian Arab Republic	6.1	4.2	0.4	81	7.9	6.7	49	51			320	80
112 Bolivia	2.1	5.6	0.4	3.8	1.7	1.1			**	14	34	121
113 Swaziland	5.9	7.3	15	3.0	1.1	2.3	E3	64	40	0.0		
114 Honduras	4.2	3.6	1.0	2.8	1.6	1.1 4	61	86	84	2.0	19	113
115 Namibia	0.0	9.1	10	4.2	100	2.3	66	p.o.	24	10	6	
116 Vanuatu					**		64	100	**	14	O	+1
117 Guatemala	1.0	4.9		44	44	**	м	80		40	84	44
118 Solomon Islands	1.8	1.7	0.6	1.8	1.6	0.8	14	40	11	0.5	41	128
119 Mongolia	4.7	E 4	44	4.9	41	-	**	81	**	**	16	
120 Egypt	7.8	6.4	0.0	4.3	8.7	2.2	40	**	19	80	9	27
	6.3	9.0	0.6	1.7	4.5	99	867	70	н	tro	450	101
121 Nicaragua	6.8	3.6	0.4	5.3	8.7	1.6	84	that .		14	17	27
122 Botswana	6.8	10.4	1.5	411	4.4	3.2	10	49		41	8	188
123 São Tomé and Principe	4.6	++	91	6.2	14	80	16	44		49	1.0	44
124 Gabon	4.5	2.8	0.5	0.6	40	44		**	99		5	196
125 Iraq	4.0		1.0	40	8.0	**	an	49			388	75
126 Morocco	6,3	5.3	1.0		4.1	3.9	104	117				
127 Lesotho	4.3	7.0	1.0	3.7	3.1				49	41	196	132
128 Myanmar	16	1.2	0.7	0.4	2.2	41	100	4.4	0.9	9.0	2	100
129 Papua New Guinea	**	1486	"	2.8	1.4	àth	100	44		66	429	231
130 Zimbabwe	9.1		1.2	1.7	6.2	2.7	9.0	10	64	99	4	134
131 Counterial Cuines			*****	107	0.2	2.7	44	н	86	61	39	95
131 Equatorial Guinea 132 India	79.4	1.8	**	91	66	99	**	10	10	49	1	59
133 Ghana	3.4	3.4	0.5	0.7	3.4	2.5	1,085	73	н	0	1,145	91
134 Cameroon	2.6	2.0	1.1	1.6	0.4	0.6	-	49	46	19	7	46
135 Congo	3.1	2.9	1.0	1.0	1.4	44	10	**	46	44	13	180
	5.1	6.2	1.6 -	1,8	14	20	49	79	44	61	10	115
136 Kenya	6.4	6.6	1,5	No.	2.7	**	40	64			24	177
137 Cambodia	40	2.9	11	0.7	0.0	4.7	**	0	61	11	141	401
138 Pakistan	2,5	3.0	0.3	0.8	6.5	5.6 d	572	95	66	10	587	122
139 Comoros	4.1	**	B1	1.1	ho .	- 14		**	66	**		
Low human development	2.7		8.0	1,2	2.9			^ ~	f of .		1 4 4 4 4 4	44
140 Lao People's Dem. Rep.	- \	2.5			2.3	hu	ali	82 °	ba .	10	1,091 T	114
141 Congo, Dem. Rep. of the	1.0		0.5	1.3	14	**	10	89	110	44	29	54
142 Sudan		24	10	PE	20	4.0	+1	61	19	44	40	83
143 Togo	5.0	4.7	1.0	1.0	2.0	1.6	100	an .	44	11	80	141
144 Nepal	2.6	3.1	1.3	1.6	3.1		44	6.0	da	0.0	7	194
145 Bhutan			0.2	1.2	0.9	8.0	66	**		н	46	184
	0.0	th the	849	2.3	94	110	0-0	84	**	44	4.0	44
146 Nigeria	64	0.9	0.3	0.3	1.2	0.7		14	114	hb	77	82
147 Madagascar	2.9	1.9	1.4	1.1	1.4	8.0	41	an	D-0	h b	21	100
48 Yemen	84	6.1	90	1.0	84	ed .	66	10		64	66	103
49 Mauritania	8-9	**	0.5	1.8	4.5	84	10	tro.	80	44	16	185
150 Bangladesh	1.9	2.9	e4	1.2	1.7	21	13	10	40	40	121	133

#### 13 Resource use imbalances

			Public exq	penditure			Trad	e in convent (1990 p		pons	Tota armed f	
	Public ex	penditure		ealth	Mili	tary	lm	ports	Ехр	orts	- armear	Index
	on edu (as % c		As % of GNP	As % of GDP	expen (as % o	diture	US\$ millions	Index (1991 = 100)	US\$ millions	Share (%)	Thousands	(1985 = 100)
HDI rank	1985	1996	1960	1995	1988	1996	1997	1997	1997	1993-97 <sup>b</sup>	1997	1997
151 Zambia	4.7	. 2.2	1.0	2.9	61	1.1 <sup>d</sup>	71	49	49	ėl.	22	133
152 Haiti	1.2	**	1.0	1.3	44		81	81			p b	**
153 Senegal	ma	3.5	1.5	1.2	2.0	že.		64	40	34	13	133
154 Côte d'Ivoire	n.o.	5.0	1.5	1.4	1.2	44	H	.,			8	64
155 Benin	44	3.2	1.5	1.8	2.3	84	*1	pri			5	107
156 Tanzania, U. Rep. of	4.4	86	0.5	2.5	1.8	9.0	82		69	40	35	86
157 Djibouti	2.7	és.	60	**	49	100	11	40	01	н	10	320
158 Uganda	3.5	2.6	0.7	1.6	1.8	3.8		40	**	85	55	275
159 Malawi	3.5	5.5	0.2	2.3	1.5	8.0	er		**	19	5	94
160 Angola	5.1	nà	91	41	13.0	**	84	te.	*1		111	223
161 Guinea			3.0	1.2							10	98
162 Chad	ψn	69	0.5	2.7	40	8+	84	1-0	**	04	25	208
163 Gambia	3.2	62		1.7	0.8	1.4	61	0.0	14	ès	1	160
164 Rwanda	3.1	14	0.5		1.5		40	04	911	66	55	1,058
165 Central African Republic	2.8	**	1.3	1.9	11.0	1.3	**	il e	91	20	3	117
· ·						4+1	44	41)	19	14		
166 Mali	3.7	2.2	1.0	2.0	2.4	94	9.6	14		**	7	151
167 Eritrea	44	1.8	94	1.1	94	84	53	10	94	0.2	46	
168 Guinea-Bissau	3.2	9.0	84	1.1	**	49	9.0	8.0	48	117	7	85
169 Mozambique	4.2	**		**	9.2	3.4	н	99	119	49	6	39
170 Burundi	2.5	3.2	0.8	1.0	3.2	4.9	14	10	80	**	19	356
171 Burkina Faso	40	3.6	0.6	4.7	2.6	41	86	0.0	44	11	6	145
172 Ethiopia	3.0	4.0	0.7	1.7	9.8	1.8	40	99	91	64	120	55
173 Niger	100	91	0.2	1.6	0.8	**	81	**	9.9	84	5	241
174 Sierra Leone	1.9	04	89	bo	0.5	1.8	α»	41	44	40	15	484
All developing countries	3.9	3.6	0.9	1.8	3.1	2.4	78	**	**	6+	13,107 T	95
Least developed countries	2.7		14	1.6	**	**			14	***	1,566 T	147
Sub-Saharan Africa	4.9	5.4	0.7	1.4	3.7	**	**	**	4.6	**	934 T	126
Arab States	5.9		1.0	**	8.2	**	**	14	**	**	2,201 T	103
East Asia	3.0	2.7	1.0		2.5	1.7		**	**	**	3,521 T	78
East Asia (excluding China)	4.0	3.5	0.2	2.0	4.0	3.2	**	44	**	**	681 T	108
South-East Asia and the Pacific		3.0	0.5	1,3	2.4	2.0	**	11		14	1,945 T	92
South Asia	3.3	3.3	0.5	0.9	3.5	2.9		**	**		2,534 T	116
South Asia (excluding India)	3.3	3.0	44	1.3	3.6	44	44		**	**	1,389 T	150
Latin America and the Cariobean	3.9	4.5	1.2	2.5	1.3	1.3	**	•	41	hr.	1,322 T	87
Eastern Europe and the CIS	**	4.6		4.5	**	3.2	**	**			2,996 T	
Industrialized countries	5.2	5.1		6.3	3.6	2.3	**	••	**	**	4,013 T	74
World	4.9	4.8	**	5.5	4.0	2.4		11	**	**	20,115 T	89

a. Figures are trend-indicator values.

b. Calculated using the 1993-97 total for suppliers of conventional weapons as defined by SIPRI 1998.

C. Data refer to the Federal Republic of Germany before reunification.

d. Data refer to estimates deemed uncertain by SIPRI 1998.

Source Columns 1 and 2\*UNESCO 1998a; column 3: UN 1993 and World Bank 1993, column 4: World Bank 1999b; columns 5-7 and 9: SIPRI 1998; columns 8 and 10: calculated on the basis of data from SIPRI 1998; columns 11 and 12: IISS 1998.

#### 14 Aid flows from DAC member countries

	assi	cial develo stance (OE disbursed	*	ODA as % of central	capi do	per ta of nor	Multi- lateral ODA as	Share of ODA through			Aid to	ped
	Total * (US\$ millions)	As % of	GNP	government budget	(1996		% of GNP	NGOs b (%)	Aid by as % o		count (as % of	
IDI rank	1997	1986/87	1997	1992/93	1986/87	1996/97	1996/97	1995/96	1986/87	1996/97	1986/87	1997
1 Canada	2,045	0.48	0.34	1.6	89	64	0.11	8.5	0.05	0.04	32	23
2 Norway	1,306	1.13	0.86	1.7	294	308	0.25	270	80.0	0.07	41	39
3 United States	6,878	0.21	0.09	1.8	52	30	0.03	8.6	0.04	0.03	18	20
4 Japan	9,358	0.30	0.22	1.4	83	79	0.05	2.1	0,00	0.01	27	19
5 Belgium	764	0.48	0.31	44	107	88	0.06	0.3	0.01	0.02	50	27
6 Sweden	1,731	0.87	0.79		225	222	0.20	6.0	0.07	0.01	39	30
7 Australia	1,061	0.40	0.28	1.3	70	59	0.07	0.6	0.02	0.03	19	19
8 Netherlands	2,947	0.99	0.81	40	203	212	0.17	9.2	0.08	0.01	34	27
10 United Kingdom	3,433	0.29	0.26	44	49	55	0.06	2.0	0.03	0.03	31	22
11 France	6,307	0.58	0.45	40	131	125	0.05	0.2	0.01	0.00	27	22
12 Switzerland	911	0.30	0.34	3.1	124	148	0.11	5.8	0.05	0.04	39	33
13 Finland	379	0.48	0.33	1.5	105	81	0.12	0.7	0.04	0.00	44	24
14 Germany	5,857	0.41	0.28		90	87	0.06	2.6	0.06	0.05	28	19
15 Denmark	1,637	0.88	0.97	2.5	250	342	0.35	0.5	0.02	0.02	38	30
16 Austria	527	0.19	0.26	0.7	45	72	0.04	0.5	0.02	0.02	19	17
17 Luxembourg	95	0.17	0.55	65	54	226	0.07	12.5	0.00	0.03	42	29
18 New Zealand	154	0.28	0.26	0.4	43	38	0.05	2.0 °	0.02	0.03	20	23
19 Italy	1,266	0.37	0.11	0.6	67	33	0.05	1.0	0.00	0.00	50	26
20 Ireland	187	0.23	0.31	M	22	51	0.04	0.1	0.10	0.10	36	48
21 Spain	1,234	0.08	0.23	1.0	10	34	0.02		0.00	0.02	15	16
28 Portugal	250	0.10	0.25	48	6	25	0.02	8.0	0.00	0.00	πp	<b>6</b> 6
DAC total <sup>d</sup>	48,324 T	0.33	0.22		75	66	0.05	3.4	0.03	0 02	28	.3

Note: DAC refers to the Development Assistance Committee of the OECD.

a. Some non-DAC countries and areas also provide ODA. Net ODA disbursed in 1997 by the Czech Republic, Iceland, Kuwait, Saudi Arabia and Taiwan (province of China) totalled \$1,032 million.

b. On a disbursements basis.

c. Data refer to 1994.

d. Totals are as calculated in OECD 1999a.

Source: Columns 1-12: OECD 1999a.

Aid and debt 15 country

70 Samoa (Western)

Net official development assistance (ODA) received

Debt service ratio (debt service (net disbursements) **External debt** as % of Total Per capita Total exports of goods (US\$ millions) As % of GNP (US\$ millions) As % of GNP (US\$) and services) 1997 1985 1997 1985 1997 1985 1997 1991 1997 1991 1997 1991 HDI rank 31.9 393,373.5 T 55.7 36.0 33.0 13.5 5.476 T 2,539 T 0.7 0.1 15.4 174.074.4 T High human development 2.9 8 10 (.) () 0.4 22 Singapore 240.7 1,750 1,192 \* 3.0 1.2 353.6 23 Israel 6.3 1.4 8 = (.) (.) 24 Hong Kong, China (SAR) 36 (.) 4 0.1 15.1 1.1 4 25 Brunei Darussalam 57.6 70.6 40 49 1 0.7 0.5 26 Cyprus 27 Greece 7.5 b 457.2 644.3 38.4 6.3 7.7 11.5 2 3 0.1 29 Barbados 143,372.5 59.9 32.8 27.8 8.6 (,) 1.3 -3.7 54,585.3 30 Korea, Rep. of 55 -160 (.) 7.7 0.1 11.6 31 Bahamas 2 3 . 185.4 1,033.9 16.8 30.6 1.9 2.1 0.7 58.7 61.5 8.0 32 Malta 21 22 3.9 26.0 0.5 48.5 4,762.1 97 33 Slovenia 31,440.1 48.4 20,383.9 141.7 42.4 20.4 10.2 34 Chile 126 136 0.4 0.2 9.5 1.5 5 2 \* (.) (.) 3.7 35 Kuwait 41.8 14.1 10.4 3,459.3 21,456.3 12.6 22.4 36 Czech Republic 107 ª 1.0 0.2 231 7,084.0 b 37.6 138.4 b 165.4 1.264.0 84 1.2 1.6 86.5 37 Bahrain 44 31.4 59.7 b 280.0 b 59.0 1.8 0.8 109.0 62.3 38 Antigua and Barbuda 7 4 60.1 58.7 50,945.9 123,221.4 60.9 38.7 6.7 222 0.2 0.1 9.1 300 39 Argentina 42.6 15.4 3,919.4 6,652.0 89.3 33.6 0.5 0.3 16.6 18.2 40 Uruguay 52 57 2.0 3.9 2 14 41 Oatar 12.2 12.7 1,107.6 9,989.0 8.2 51.7 21.8 115 \* 67 ª 1.1 0.3 42 Slovakia -3.0 2.0 40 (3 -6 43 United Arab Emirates 29.5 15.5 6.1 39,889.5 48.6 33,307,1 16.8 641 ° 3.4 0.5 65.6 44 Poland 2,508 a 41.5 11.8 4,400.3 3,548.4 121.0 38.1 56.3 45 Costa Rica 174 3.2 26.0 18.0 35.3 32.9 6.2 734,448.7 T 1,720,856.1 T 9.3 34,101 T 24,130 1 0.6 Medium human development 38 R 10.2 19.6 20.6 2,161.5 26.5 1,448.2 -1.6 -2 33 (.) 0.6 46 Trittidad and Tobago 29.7 55.0 39.3 13,956.5 24.373.4 70.6 14.7 60.5 47 Hungary 626 ª 152 ª 2.0 0.3 31.3 41.6 25.0 35,333.7 35,541.5 58.4 1.6 1.4 (.) 48 Venezuela 28 0.1 31 7.3 16.4 91.4 75.4 4,758.5 6,338.0 1.5 41.7 50.7 124 1.9 49 Panama 102 56.1 38.4 43.7 32.4 149,689.9 1.3 96,861.9 3,3 0.1 50 Mexico 278 108 3.9 1.8 24.3 167.5 12.8 62.0 16.7 2.7 167.5 51 Saint Kitts and Nevis 7 7 4.4 5.7 b 34.9 10.7 42.4 52.2 105.3 170.9 85.5 6.8 2.7 52 Grenada 16 8 55.8 43.5 7.6 8.2 161.4 54.3 236.1 194.4 53 Dominica 17 14 9.8 6.2 1.4 14.5 658.4 9.6 41.5 1.4 54 Estonia 15 \* 65 ª 0.3 11.9 35.2 6,841.5 9.2 0.7 44 55 Croatia 81 30,4 7.5 69.9 50.5 20,269.1 47,228.2 -12.9 0.7 -0.3 15.5 -241 56 Malaysia 290 41.9 26.6 42.9 34.4 31,777.4 14,245.5 3.4 7.7 274 0.3 0,3 57 Colombia 123 35,344.0 b 3.5 6.2 20,682.0 58 Cuba 38 67 2,471.6 56.7 24.3 10.9 61.1 628.8 63.8 39.4 1.0 2.4 59 Mauritius 68 42 1.8 1,161.5 5.2 119 4.2 18.2 43 0 0.5 0.2 60 Belarus 187 \* 11.7 3.0 10.5 40.5 60.3 59.0 443.7 213.4 2.2 61 Fiji 45 44 3.1 16.4 6.0 1,540.5 1.1 27.3 102 a () 1.1 4 8 62 Lithuania 10.2 14.4 9,858.3 22.0 101.3 3,851.5 23.9 3.2 2.1 36.6 63 Bulgaria 316 \* 206 ª 17.5 b 118.0 b 6.1 108.9 190.6 57.0 11.4 64 Suriname 77 12.6 44 3,363.0 b 17.4 5.7 2,0 4,759.0 9 65 Libyan Arab Jamahiriya 26 7.9 4.0 59.6 28.2 149.1 325.1 97.2 212.0 2.8 6.3 15 66 Seychelles 23 31.9 15.4 45.9 62.6 17,545.5 93,415.7 11.1 12.8 0.7 0.4 67 Thailand 676 722 18.7 15.7 30.2 10,442.1 13.8 8.5 7,008.0 0,6 68 Romania 321 4 197 ª 1,1 5,036.2 32.8 14.4 64.5 869.5 35.6 2.7 1.6 69 Lebanon 239 132 15.1 3.8 156.3 8.88 80.1 76.1 172.8 351.7 14.4

28

57

38.2

15 Aid and debt by recipient country

#### Net official development assistance (ODA) received

(net disbursements)

Debt service ratio (debt service External debt

			(net disbi	ursements)				Externa	debt		as 9	6 of
		ital nilions)	As %	of GNP		capita JS\$)		otal millions)	As %	of GNP	exports and se	of goods ervices)
HOI rank	1991	1997	1991	1997	1991	1997	1985	1997	1985	1997	1985	1997
71 Russian Federation	564 ª	718 *	0.1	0.2	3.8	4.8	28,296.4	125,645.2	wa.	28.7		6.5
72 Ecuador	238	172	2.2	0.9	22.7	16.4	8,702.8	14,918.4	58.9	79.4	33.0	31.0
73 Macedonia, TFYR		149	An de la constant de	6.8		77.8	0,102,0	1,542.5	1,000,10	70.8		8.8
74 Latvia	3 *	81 a	(.)	1.5	1.1	30.4		503.3	80	9.0	84	4.4
75 Saint Vincent and the Grenadines	14	6	7.0	2.2	129.6	55.6	24.8	257.8	22.3	94.8	3.8	8.3 b
76 Kazakhstan	112	131	0.4	0.6	5.8	8.0	44	4,278.0	**	19.5	44	6.5
77 Philippines	1,053	689	2.3	0.8	16.4	10.8	26,637.3	45,433.3	89.1	53.0	31.6	9.2
78 Saudi Arabia	45	15	(,)	(.)	2.8	0.9	14,181.0	19,222.0	14.6	13.5 b	40	41
79 Brazil	183	487	(,)	0.1	1.2	3.2	104,000.0	193,662.8	49.1	24.1	39.1	57.4
80 Peru	614	488	2.2	8.0	27.9	22.2	12,879.3	30,495.7	72.9	48.8	27.7	30.9
81 Saint Lucia	22	24	5.5	4.1	146.7	160.0	23.1	151.7	10.8	25.7	1.2	3.3 b
82 Jamaica	162	71	4.9	1.8	66.8	29.3	4,102.9	3,912.9	225.6	97.7	37.6	16.2
83 Belize	21	14	5.0	2.3	108.1	72.1	118.3	383.4	59.4	62.2	11.6	9.2
84 Paraguay	146	116	2.4	1.2	33.6	26.7	1,816.9	2,052.5	58.0	20.8	19.7	5.0
85 Georgia	(.)	246	(.)	4.7	(1)	45.0	1,01012	1,445.5	9010	27.4	1.00.0	6.4
86 Turkey	1,623	-1	1.1	(.)	28.3	(.)	26,012.6	91,205.4	38.4	47.1	35.0	18.4
87 Armenia	3	168	0.1	9.6	0.8	46.5	60	665.5	84	38.0		5.8
88 Dominican Republic	67	76	0.9	0.5	9.2	10.5	3,502.4	4,238.7	73.8	29.0	19.0	6.2
89 Oman	15	20	0.2	69	8.5	11.4	2,329.4	3,601.7	26.3	11	5.4	5.9
90 Sri Lanka	891	345	10.1	2.3	51.7	20.0	54	7,638.1	59.5	51.2	16.5	6.4
91 Ukraine	368 ª	176 =	0.4	0.4	7.1	3.4	20	10,901.3	411	22.2	01	6.6
92 Uzbekistan	10	130	410	0.5		6.2	0.0	2,760.5	44	11.2	**	12,9
93 Maldives	35	26	23.4	8.4	159.9	118.8	83.1	160.3	116.3	51.8	11.3	6.7
94 Jordan	921	462	23.8	6.8	259.8	130,3	4,021.9	8,234,1	78.7	121.0	17.2	11.1
95 Iran, Islamic Rep. of	194	196	30	0.2	3.5	3.5	6,057.0	11,816.4	3,4	9.6	4.1	32.2
96 Turkmenistan	**	11	84	0.4	200	2.9	at	1,771.2		62.5	640	34.7
97 Kyrgyzstan	64	240	68	14.1	an .	53.9	44	928.2	104	54.4	44	6.3
98 China	1,999	2,040	0.5	0.2	1.7	1.8	16,696.0	146,697.0	5.5	16.6	8.3	8.6
99 Guyana	130	272	60.9	39.9	162.4	339.9	1,496.5	1,610.6	388.8	236.0	27.7	17.6
100 Albania	324	155	29.2	6.2	99.4	47.5	no.	706.0	**	28.1	86	7.1
101 South Africa 102 Tunisia	252	497	м	0.4	wh	13.8	9.6.	25,221.6	411	20.0	0.00	12.8
103 Azerbaijan	357	194	2.8	1.1	42.8	23.3	4,884.1	11,322.7	60.6	62.8	25.0	16.0
104 Moldova, Rep. of	91	182	AB	4.2	44	25.1	12	503.7	40	11.7	tra .	6.8
105 Indonesia	1,874	63 832	1.5	3.5 0.4	10.3	14.5	20.245.2	1,039.8	64	57.4	44	10.9
106 Cape Verde	106				10.3	4.6	36,715.2	136,173.5	44.4	65.3	28.8	30.0
107 El Salvador	294	110 294	33.1	26.2	305.1	316.6	97.4	220.0	94.9	52.5	9.5	5.5
108 Tajikistan			5.6	2.6	56.5	56,5	1,850.8	3,281.8	49.8	29.4	24.0	7.0
109 Algeria	340	101	0.0	5.0	**	18.5	11	901.1	214	44.6	44	4.6
110 Viet Nam	238	248 997	0.8 2.5	0.6 4.1	13.3 3.5	9.7	18,259.9	30,920.6	32.4	69.0	35.6	27.2
111 Syrian Arab Republic	381	199	3.1			14.7	10	21,629.3	24	89.4	44	7.8
112 Bolivia	513	717		1.2	30.4	15.9	10,842.8	20,864.7	66.5	126.4	12.3	9.3
113 Swaziland	54	27	10.1	9.2	76.2	106.5	4,804.6	5,247.5	167.3	67.6	49.5	32.5
114 Honduras	303	308	5.4	1.9	68.0	34.0	243.1	368.2	8.03	25.4	9.9	2.5
115 Namibia	184	166	10.6 6.9	6.7 5.0	60.3 132.7	61.3 119.7	2,730.2	4,697.8	78.5	102.8	24.7	20.9
116 Vanuatu	53	27	30.7			119.7	30.0	85.0 5	2.6	2.6 b	22	11
117 Guaternala	199	302	2.1	11.6	349.8	178.2	15.8	47.9	13.0	20.5	1.4	1.5
118 Solomon Islands	35	42		1.7	22.2	33.7	2,677.5	4,085.7	28.0	23.2	28.1	9.9
119 Mongolia	70	248 .	15.2	11.4	105.2	126.3	65.5	135.4	42.6	36.9	4.5	2.4
120 Egypt	5,025	1,947	15.5	25,2	31.0	109.7	20.400.4	717.9	44	72.9		11.7
120 19/1/1	3,023	1,3447	15.5	2.5	93.7	36.3	36,102.1	29,849.1	115.0	39.0	25.8	9.0

15 Aid and debt by recipient country

#### Net official development assistance (ODA)

received (net disbursements) **Debt service ratio** (debt service

				rred rsements)				Externa	l debt			t service % of
	To (US\$ m		As % (	of GNP		capita JS\$)		rtal nillions)	As %	of GNP	exports	of goods ervices)
HDI rank	1991	1997	1991	1997	1991	1997	1985	1997	1985	1997	1985	1997
121 Nicaragua	841	421	84	40	75	••	5,758.4	5,677.4	229.0	305.6	18.4	31.7
122 Botswana	136	125	3.4	2.6	103.4	95.1	351.1	562.0	31.6	11.5	5.4	5.2 b
123 São Tomé and Principe	52	34	98,5	87.5	439.4	287.3	62.6	260.7	187.8	671.2	29.2	52.0
124 Gabon	143	40	2.9	0.9	144.4	40.4	1,206.2	4,284.5	39.0	95.7	11.6	13.1
125 Iraq	552	281	45	u.5	29.6	15.1	12,839.0	21,912.0		33.7	11.0	1,3,1
126 Morocco	1,232	462	4.6	1.4	50.2	18.8		19.320.8				
127 Lesotho	126	93	13.1	7.3	71.5	52.8	15,779.2 175.3		130.4	59.5	34.6	26.6
128 Myanmar	179	45			4,4			659.8	36.7	51.9	6,8	6,4
	397	349	10.0	n c		1.1	3,097.6	5,074.1	00.4	n n	52.5	8.0
129 Papua New Guinea 130 Zimbabwe	393	327	10.8 4.7	8.6 3.9	101.1 39.2	88.9 32.6	2,112.2	2,272.5 4,961.3	90.4 43.9	56.3 58.5	32.5 29.0	15.0 22.0
							2,414.6				25.0	
131 Equatorial Guinea	63	24	51.7	4.9	174.8	66.6	132.3	283.2	175.7	57.8	**	1.4
132 India	2,745	1,678	1.1	0.4	3.2	1.9	40,950.7	94,404.2	19.2	24.9	22.7	19.6
133 Ghana	882	493	13.6	7.3	57.6	32.2	2,256.5	5,982.0	51.0	88.6	23.6	29.5
134 Cameroon	519	501	4.5	5.9	44.0	42.5	3,174.2	9,292.9	40.2	109,2	23.4	20.4
135 Congo	134	268	5.9	14.7	58.6	137.3	3,050.4	5,070.8	150.7	278.4	34.4	6.2
136 Kenya	921	457	12.1	4.6	37.9	18.8	4,177.6	6,485.8	70.7	64.7	38.6	21.5
137 Cambodia	91	372	5.6	12.2	10.2	41.7	44	2,128.7	44	69.9	ès	1.1
138 Pakistan	1,371	597	3.1	1.0	12.4	5.4	13,464.9	29,664.5	46.1	47.5	24.9	35.2
139 Comoros	65	28	26.4	14.5	146.6	63.1	134.2	197.4	118.4	101.9	8.9	3.9
Low human development	15,809 T	13,285 T	12.3	10.5	34.2	28.2	98,339.3 T	173,123.7 T	69.2	93.4	26.0	13.1
140 Lao People's Dem. Rep.	143	341	13.9	19.5	34.6	82.4	618.7	2,319.9	26.1	132.4	9.2	6.5
141 Congo, Dem. Rep. of the	476	168	5.7	3.2	12.3	4.4	6,170.7	12,329.6	93.0	232.3	24.8	0.9
142 Sudan	881	187	7.9	2.1	35.9	7.6	8,955.2	16,326.1	75.1	182.4	12.8	9.2
143 Togo	202	124	12.9	8.6	55.6	34.1	935.3	1,339.0	128.9	92.6	27.3	8.1
144 Nepal	453	414	12.0	8.4	23.5	21.5	589.9	2,397.7	22.2	48.6	6.8	6.9
145 Bhutan	64	70	29.0	21.3	103.6	113.3	8.8	89.3	5.6	27.2	0.0	5.1
146 Nigeria	263	202	11.5	11.0	32.9	25.3	18,643.3	28,455.1	68.1	75.6	32.7	7.8
147 Madagascar	456	838	18.4	24.3	38.3	70.5	2,529.3	4,104.7	92.7	119,2	41.7	27.0
148 Yemen	300	366	6.2	7.3	22.4	27.3	3,338.9	3,856.3	н	76.7	10	2.6
149 Mauritanla	220	250	20.6	23.9	105.6	120.0	1,453.9	2,453.2	230.5	234.7	25.3	24.2
150 Bangiadesh	1,889	1,009	6.0	2.3	16.8	9.0	6,869.7	15,125.3	31.8	35.1	22.4	10.6
151 Zambia	883	618	29.5	16.9	110.1	77.0	4,575.8	6,757.8	230.4	184.6	14.4	19.9
152 Haiti	182	332	5.5	11.8	27.6	50.4	717.4	1.057.2	36.1	37.7	10.2	15.9
153 Senegal	639	427	12.0	9.6	85.1	56.9	2,566.0	3,670.6	104.7	82.9	20.8	15.3
154 Côte d'Ivoire	633	444	6.9	4.7	52.8	37.0	9,658.9	15,608.6	153.4	165.3	34.8	27.4
155 Benin	268	225	14.5	10.7	54.9	46.1	853.7	1,624.3	83.3	76.9	12.9	9,1
					41.1	36.6	9,107.1	7,177.1	2.0	97.2	40.0	12.9
156 Tanzania, U. Rep. of	1,081	963	24.9	13.0	202.7	163.3	144.0	283.6	27	57.1	de	3.1
157 Djibouti	108	87	23.8	17.5		49.7	1,231.9	3,707.9	35.5	56.5	38.0	22.1
158 Uganda	667	840	20.4	12.8	39.5	40.0	1,020.7	2,206.0	94.6	89.0	39.8	12.4
159 Malawi	525	350	24.3	14.1	60.0 29.2	45.5	2,993.0	10,159.8	47.7	231.8	6.4	15.9
		436	2.8	9.9								
160 Angola	280			40.3	64.5	64.5	1,465.5	3,520.4	22.0	95.3 65.2	17 5	21.5
161 Guinea	382	382	13.5	10.3							17.5	12.5
161 Guinea 162 Chad		225	15.0	14.3	45.2	38.2	216.5	1,026.5	22.0			11.5
161 Guinea 162 Chad 163 Gambia	382	225 40	15.0 34.1	14.3 10.0	45.2 107.2	41.6	245.1	430.1	113.7	107,6	10,3	11.6
161 Guinea 162 Chad 163 Gambia 164 Rwanda	382 266	225 40 592	15.0 34.1 19.1	14.3 10.0 32.0	45.2 107.2 50.9	41.6 82.8	245.1 365.6	430.1 1,110.9	113.7 21.4	107,6 60.0	10.3 10.4	13.3
161 Guinea 162 Chad 163 Gambia	382 266 103	225 40	15.0 34.1	14.3 10.0	45.2 107.2	41.6 82.8 30,5	245.1 365.6 343.5	430.1 1,110.9 885.3	113.7 21.4 40.1	107,6 60.0 88,2	10.3 10.4 14.2	13.3 6.2
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic 166 Mali	382 266 103 364	225 40 592	15.0 34.1 19.1	14.3 10.0 32.0 9.2 18.4	45.2 107.2 50.9	41.6 82.8 30.5 52.3	245.1 365.6	430.1 1,110.9 885.3 2,945.1	113.7 21.4 40.1 119.8	107,6 60.0 88,2 119,2	10.3 10.4 14.2 17.3	13.3 6.2 10.5
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic 166 Mali 167 Eritrea	382 266 103 364 175	225 40 592 92	15.0 34.1 19.1 12.6	14.3 10.0 32.0 9.2	45.2 107.2 50.9 58.1 52.6	41.6 82.8 30,5 52.3 38.2	245.1 365.6 343.5 1,456.1	430.1 1,110.9 885.3 2,945.1 75.5	113.7 21.4 40.1 119.8	107.6 60.0 88.2 119.2 9.1	10.3 10.4 14.2 17.3	13.3 6.2 10.5 0.1
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic	382 266 103 364 175 458	225 40 592 92 455	15.0 34.1 19.1 12.6 19.2	14.3 10.0 32.0 9.2 18.4	45.2 107.2 50.9 58.1 52.6	41.6 82.8 30.5 52.3 38.2 126.0	245.1 365.6 343.5 1,456.1	430.1 1,110.9 885.3 2,945.1 75.5 921.3	113.7 21.4 40.1 119.8	107.6 60.0 88.2 119.2 9.1 366.5	10.3 10.4 14.2 17.3	13.3 6.2 10.5 0.1 17.3
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic 166 Mali 167 Eritrea	382 266 103 364 175 458	225 40 592 92 455 123	15.0 34.1 19.1 12.6 19.2	14.3 10.0 32.0 9.2 18.4 14.8	45.2 107.2 50.9 58.1 52.6	41.6 82.8 30,5 52.3 38.2	245.1 365.6 343.5 1,456.1	430.1 1,110.9 885.3 2,945.1 75.5	113.7 21.4 40.1 119.8	107.6 60.0 88.2 119.2 9.1	10.3 10.4 14.2 17.3	13.3 6.2 10.5 0.1

195

#### 15 Aid and debt by recipient country

#### Net official development assistance (ODA) received

				rsements)				External	debt			service % of
	Tot (US\$ m		As % o	of GNP		capita SS)		otal millions)	As % c	of GNP	exports	of goods ervices)
HD1 rank	1991	1997	1991	1997	1991	1997	1985	1997	1985	1997	1985	1997
171 Burkına Faso	424	370	15.3	15.5	46.6	40.7	511.1	1,297.1	35.9	54.3	10.1	11,8
172 Ethiopia	1,097	637	20.6	10.1	20.7	120	5,205.7	10,078.5	78.1	159.0	28.4	9.5
173 Niger	377	341	28.7	18.4	95.6	86.5	1,194.9	1,579.1	85.5	86.3	33.7	195
174 Sierra Leone	105	130	13 9	16.0	25.7	31.8	709.1	1,148.7	60.4	141.4	14.7	21.2
Ali developing countries	47,918 T	34,469 T	19	09	12.5	9.0	915,690 6 T	2,001,755 0 T	39 9	36.0	.87	18.4
Least developed countries	15,136 T	13,041 T	13.2	11.1	33.7	29.1	71,411,0 T	134,713.2 T	62.4	92 3	20.5	12.4
Sub-Saharan Africa	15,658 T	13,726 T	12.3	6.7	426	33 5	95,328 2 T	198,224 2 T	740	66.3	25.	13.7
Arab States	10,360 T	4,807 T	40		49.2	20.7	138 570.0 T	201,196 9 1	416	45.7		.,
East Asia	2,160 T	2,136 T	03	0.1	1.7	16	71,281 3 T	290,787.4.1	180	22.0	18 5	86
East Asia (excluding China)	161 T	96 1	(.)	(.)	1.9	31	54,585,3 T	144,090 4 T	599	32.9	27.8	86
South-East Asia and the Pacific	5,189 T	4,152 T	1.4	0.5	13.9	9.2	107,596 7 T	356,228 2 T	56.2	613	10 ,	147
South Asia	7,642 T	4,335 T	19	0.7	6.5	3.7	68,024 1 1	161,295 8 T	15.8	25.7	15.8	199
South Asia (excluding India)	4,897 T	2,657 T	5.2	1.9	15.5	8.4	27,073 4 T	66,891.6 T	12.8	26.8	10.9	205
Laten America and the Caribbean	5,246 T	5,265 T	0.5	0.5	10.2	11.4	408,8777T	702,817 1 T	58 3	33.9	38 1	350
Eastern Europe and the CIS	5,697 T	4,272 T	0.6	0.4	16.9	10.0	**	284,564 4 T		30 5		9.8
Industr airzed countries	**	**										,,,,
World	1+	**	+-						,			

Debt service ratio

a. Data refer to net official aid.

b. Data refer to 1996.

c. The total differs from that in OECD 1999b because it does not include net ODA to countries unspecified in that source, to Eastern European countries and to other developing countries not included in this table.

Source: Columns 1 and 2: OECD 1999b; columns 3-6; calculated on the basis of data from OECD 1999b, UN 1998h and World Bank 1999b; columns 7-12: World Bank 1999b.



		Total opulatio (millions)	n	grow	lation th rate %)		Urban opulation % of tot		rar	ndency tio (6)	age and	ulation ed 65 above of total)	fer	rtal tility ate	ontraceptive prevalence rate (%)
HDI rank	1975	1997	2015	1997	2015	1975	1997	2015	1997	2015	1997	2015	1975	1997	1990-981
High human development	872.41	1,018.2	T 1,088.3 T	0,7	0.4	72.9	77.9	82.2	49.6	51.5	13.6	17.1	2.1	1.7	15
1 Canada	23.2	30.3	35.3	1.2	0.9	75.6	76.8	79.8	47.2	48.7	12.3	16.2	1.8	1.6	73 b
2 Norway	4.0	4.4	4.7	0.4	0.4	68.2	73.6	78.0	54.5	54.8	15.8	18.0	2.0	1.9	76 b
3 United States	220.2	271.8	307.7	1.0	0.7	73.7	76.6	81.0	52.7	49.8	12.5	14.7	1.8	2.0	71
4 Japan	111.5	126.0	126.1	0.6	(.)	75.7	78.4	82.0	44.8	64.3	15.6	24.6	1.9	1.4	59
5 Belgium	9.8	10.1	10.1	0.2	(.)	94.9	97.1	98 0	51.0	51,6	16.2	19.1	1.8	1.6	79
6 Sweden	8.2	8.9	9.1	0.4	0.1	82.7	83.2	85.2	56.5	57.5	17.5	21.8	1.7	1.6	78
7 Australia	13.9	18.3	21.5	1.3	0.9	85.9	84.6	86.0	50.1	50.3	12.1	15.2	2.3	1.8	76 b
8 Netherlands	13.7	15.6	15.9	0.6	0.1	88.4	89.1	90.9	46.7	49.2	13.4	18.5	1.7	1.5	80
9 Iceland	0.2	0,3	0.3	1.0	0.8	86.6	91.9	93.8	54.4	51.4	11,3	13.7	2.5	2.1	12
10 United Kingdom	56.2	58.5	59.6	0.2	0.1	88.7	89.3	90.8	54.1	54.1	15.9	18.7	1.8	1.7	82
		FOF	61.1	0.5	0.2	73.0	75.0	79.4	52.9	55.5	15.4	18.4	2.0	1.7	75
11 France	52.7	58.5 7.3	61.1 7.6	0.5	0.2	55.7	61.6	68.3	47.2	49.6	14.5	18.7	1.6	1.5	710
12 Switzerland	6.3		5.3	0.6	0.1	58.3	63.9	70.9	49.7	56.9	14.5	20.1	1.6	1.7	80 b
13 Finland	4.7	5.1 82.1	81.6	0.4	(.)	81.2	86.9	89.9	46.6	49.7	15.7	20.3	1.5	1.3	75
14 Germany	78.7	5,3	5,3	0.2	0.1	81.8	85.4	87.8	48.7	54.4	15.2	19.2	1.8	1.7	78 b
15 Denmark	5.1	2.3	3.3	0.2										1 A	71 5
16 Austria	7.6	8.1	8.3	0.3	0.2	65.2	64.4	68.5	47.6	46.8	14.7	17.8	1.8	1.4	
17 Luxembourg	0.4	0.4	0.5	0.6	0.6	73.7	90.0	94.0	47.0	50.4	14.0	17.0	1.7	1.7	70 b
18 New Zealand	3.1	3,8	4.4	0.9	0.8	82.8	86.3	89.4	52.9	51.8	11.6	14.1	2.4	2.0	78 b
19 Italy	55.4	57.4	54.4	0.2	-0.3	65.6	66.7	70.7	46.8	53.0	17.3	22.6	2.1 3.7	1.9	
20 Ireland	3.2	3.7	4.2	0.6	0.7	53.6	57.9	63 9	51.3	52.5	11.4	13.6	3.7		"
21 Spaln	35.6	39.6	38.5	0.5	-0.2	69.6	76.9	81.3	46.0	48.1	16.1	19.7	2.8	1.2	59 b
22 Singapore	2.3	3.4	4.0	1.9	0.9	100.0	100.0	100.0	40.8	41.3	6.6	12.4	2.1	1.7	74 b
23 Israel	3.5	5.9	7.6	2.4	1.4	86.6	90.9	92.6	61.9	52.4	9.7	11.3	3.6	2.7	
24 Hong Kong, China (SAR)	4.4	6.5	7.7	1.8	0.9	89.7	95.3	96.7	40.2	38.4	10.1	13.7	2.5	1.3	•
25 Brunei Darussalam	0.2	0.3	0,4	3.0	1.6	62.0	70.5	78.7	57.8	42.5	3.0	6.6	4.8	2.8	
23 Didnet Datussalani						43.4	55.2	64.6	55.9	51.9	11.3	14.9	2.3	2.0	**
26 Cyprus	0.6	0.8	0.9	1.0	07	55.3	59.5	65.1	48.6	52.4	16.7	21.4	2.3	1.3	
27 Greece	9.0	10.6	10.4	0.7	-0.1	27.7	36.5	46.6	47.4	48.3	15,1	18.2	2.6	1.4	66 <sup>b</sup>
28 Portugal	9.1	9.9	9.7	0.4	-0.1	38.6	48.4	58.4	50.5	39.6	11.1	11.3	2.4	1.5	55 b
29 Barbados	0.2	0.3	0.3	0.4	0.4	48.0	83.5	92.2	40.0	41.4	6.0	10.6	3.4	1.7	79 /
30 Korea, Rep. of	35.3	45.7	51.1	1.2	0.0	40.0						7.7	3.3	2.6	62 b
31 Bahamas	0.2	0.3	0.4	2.0	1.4	73.4	87.4	91.5	56.0	48.5	5.0	16.5	2.0	1.9	/
32 Malta	0.3	0.4	0.4	1.0	0.6	80.4	89.8	92.6	48.2	54.2	11.3 12.8	17.6	2.2	1.3	**
33 Slovenia	1.7	2.0	1.9	0.6	-0.2	42.4	51,8	58.8	43.6	44.7	6.8	9.7	3.2	2.4	43 6
34 Chile	10.3	14.6	17.9	1,6	1.1	78.4	84.2	86.9	56.2	50.0	1.8	5.6	6.3	2.9	35 b
35 Kuwait	1.0	1.7	2.6	2.5	2.3	83.8	97.3	98.2	64.6	44.4					
36 Czech Republic	10.0	10.3	9.9	0.1	-0.2	57.8	65.7	70.7	45.1	46.0	13.3	18.4	2.3	12	69
37 Bahrain	0.3	0.6	0.8	3.5	1.5	79.2	91.2	95.0	50.8	36.6	2.8	6.2	5.5	2.9	62
38 Antigua and Barbuda	0.1	0.1	0.1	0.5	0.5	34.2	36.2	43.3	+1.	**	**			3.6	53 b
39 Argentina	26.0	35.7	43.5	1.4	1.1	80.7	88.6	91.9	61.0	54.5	9.5	10.7	3.4	2.6	74 h
40 Uruguay	2.8	3.3	3.7	0.7	0.7	83.1	90.7	93.2	59.9	56.3	12.6	13.4	3.0	2.4	84
			0.7	5.6	1,4	82.9	91.8	94.2	39.8	49.5	1.6	9.1	6.4	3.7	32 b
41 Qatar	0.2	0.6	0.7	0.6	0.1	46.3	59.7	68.0	48.2	42.1	11.0	13.5	2.5	1.4	74
42 Slovakia	4.7	5.4	5.5	7.2	1.5	65.4	84.8	88.8	46.2	48.1	2.0	9.3	5.9	3.4	28
43 United Arab Emirates	0.5	2.3	3.0 39.3	0.6	0.1	55.4	64.4	71.4	49.0	44.5	11.4	14.3	2.2	1.5	75 b
44 Poland	34.0	38.7	5.2	3.0	1.9	41.3	50.3	60.3	62.6	52.0	4.8	7.1	4.0	2.8	75
45 Costa Rica			T 4,996.1 7		1.1	29.7	41.2	51.6	58.5	46.6	5.7	7.3	4.5	2.6	,,
Medium human development		1.3	1,4	1.1	0.6	63.0	72.7	79.3	53.3	41.4	6.4	9.5	3.4	1.7	53 b
46 Trinidad and Tobago	1.0	10.2	9.4	-0.2	-0.4	52.8	65.5	73.2	47.0	45.5	14.3	17.2	2.1	1.4	73 b
47 Hungary	10.5	22.8	30.9	2.7	1.7	75.8	86.5	90.4	65.6	51.7	4.2	6.5	4.6	3.0	49 b
48 Venezuela	12.7	22.8	3.5	2.1	1,3	49.0	56.5	64.9	61.1	48.6	5.4	7.8	4.4	2.6	58 b
49 Panama	1.7	94.3	119.2	2.1	1.3	62.8	73.8	77.9	63.8	49.4	4.4	6.8	5.8	2.8	53 b
50 Mexico	59.1	94.3	113.2	2.1	110	2210									

Annual

# 16 Demographic trends

Perform   Perf			Total populati		popu	nual Ilation th rate %)	ş	Urban populati		ra	ndency itio	age and	lation ed 65 above		otal tility	Contraceptive prevalence rate
51 Saint Kitrs and Nevis  (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	HDI rank	1975														(%)
S2 Generals																
S5 Dominicia	51 Saint Kitts and Nevis	(.)	(.)	(.)	-0.6	-0.5	35.0	33.9	39.3	**	april 1	44	**		41	41 b
Set Estorais										49	41	**	64	-17	61	
55 Crotralis																
See Malaysia																
Section   Sect																
Ses (Lobe)  9.3 11.1 11.6 0.8 0.3 64.2 76.7 82.7 45.4 44.0 9.2 14.1 2.6 15.6 82.7 59 Majuritis  9.4 10.4 9.8 0.5 0.3 50.3 72.5 80.4 50.5 44.0 13.0 14.2 2.1 1.4 50 61.6 18.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1																
59 Mauritus 9.4 10.4 9.8 0.5 0.3 50.3 72.5 80.4 50.5 42.0 6.1 8.5 3.1 1.9 75 60 Belarus 9.4 10.4 9.8 0.5 0.3 50.3 72.5 80.4 50.5 62 49.4 4.1 7.3 4.0 2.7 32 50 61 Fill 0.6 0.8 1.0 1.4 1.3 36.7 41.2 50.5 62 49.4 4.1 7.3 4.0 2.7 32 50 62 Billurals 3.3 3.7 3.5 0.5 0.0 3 55.7 73.1 80.1 50.3 45.0 12.6 15.8 2.2 1.4 66 Significan 0.4 0.4 0.4 0.5 0.5 0.6 0.8 44.8 50.3 60.8 61.5 42.3 5.2 5.9 4.6 2.2 66 Suriname 0.4 0.4 0.4 0.5 0.5 0.6 0.8 44.8 50.3 60.8 61.5 42.3 5.2 5.9 4.6 2.2 66 Significan 0.4 0.4 0.4 0.5 0.5 0.6 0.8 44.8 50.3 60.8 61.5 42.3 5.2 5.9 4.6 2.2 66 Significan 0.4 0.4 0.5 0.5 0.5 0.8 44.8 50.3 56.1 67.3 1 66 Significan 0.4 1.4 59.7 88.9 1.7 0.8 15.1 20.5 29.3 47.3 41.2 50.3 8.5 4.6 1.7 74 68 68 Fannaris 0.1 0.1 0.1 1.1 1.0 33.3 56.1 67.3 8.5 2.6 64.9 43.5 5.7 5.9 4.5 2.2 5.7 69 69 69 69 69 69 69 69 69 69 69 69 69																
60 Relatus 9.4 10.4 9.8 0.5 -0.3 50.3 72.5 80.4 50.5 44.0 13.0 14.2 2.1 1.4 50 61 Fill 10.6 0.8 1.0 1.4 1.3 36.7 41.2 50.5 60.2 49.4 4.1 7.3 4.0 2.7 32.9 62 Liftuania 3.3 3.7 3.5 0.5 -0.3 55.7 73.1 80.1 50.3 450 15.8 2.2 1.1 6.8 32 1.4 — 63 Bidgaria 8.7 8.4 7.5 9.2 -0.6 57.5 69.0 75.4 48.5 46.3 15.1 18.4 2.2 1.2 7.6 9.6 45 Liftuania 0.4 0.5 0.6 0.8 44.8 50.3 60.8 15.5 42.3 5.5 9.4 6.5 2.2 65 Ulyan Axab Jamahiriya 2.4 5.2 7.6 3.5 2.1 60.9 86.4 90.3 75.0 55.7 3.0 4.8 7.5 3.8 7.6 65 Sychelaes 0.1 0.1 0.1 1.1 1.0 3.0 4.4 46.2 56.8 65.4 46.6 40.8 12.4 15.4 2.6 12. 57 68 Lebanom 2.8 3.1 3.9 0.6 1.3 67.0 88.5 92.6 46.4 60.8 12.4 15.4 2.6 12. 57 68 Lebanom 2.8 3.1 3.9 0.6 1.3 67.0 88.5 92.6 46.9 43.5 5.7 5.9 4.5 2.7 63 70 Samoa Western) 0.2 0.2 0.2 0.2 0.5 1.8 21.0 21.1 26.7 76.5 44.4 4.8 6.5 4.2 21.7 17 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0																
62 Uthbania																
62 Uthbania	61 Fili	0.6	8.0	1.0	1.4	1.3	36.7	41.2	50.5	60.2	49.4	4.1	73	4.0	2.7	37 0
63 Bulgaria 8.7 8.4 7.5 0.2 0.6 57.5 69.0 75.4 68.5 66.3 15.1 18.4 2.2 1.2 76.9 64 Suriname 0.4 0.4 0.5 0.6 0.8 8.448 50.3 60.8 61.5 42.3 5.2 5.9 4.6 2.2 - 65 Ubyan Arab Jamahiriya 2.4 5.2 7.6 3.5 21. 60.9 86.4 90.3 75.0 55.7 3.0 4.8 7.5 3.8 - 66 Seychelles 0.1 0.1 0.1 0.1 1.1 1.0 33.3 56.1 67.3	•															
66 Seychelles	63 Bulgaria															
66 Seychelles 0.1 0.1 0.1 1.1 1.0 33.3 56.1 67.3	64 Suriname	0.4	0.4	0.5	0.6	8.0	44.8	50.3	60.8	61.5	42.3	5.2			2.2	
67 Thailand 41.4 59.7 68.9 1.7 0.8 15.1 20.6 29.3 47.3 41.2 5.3 8.5 4.6 1.7 74 68 Romania 21.2 22.5 21.1 0.3 -0.4 46.2 56.8 65.4 46.6 40.8 11.2 4.1 15.4 2.6 1.2 57 69 Lebano 2.8 3.1 3.9 0.6 1.3 67.0 88.5 92.6 64.9 45.5 12.4 15.4 2.6 1.2 57 69 Lebano 2.8 3.1 3.9 0.6 1.3 67.0 88.5 92.6 64.9 43.5 5.7 5.9 4.5 2.7 63 70 Samoa (Western) 0.2 0.2 0.2 0.6 1.8 21.0 21.1 26.7 76.7 57.6 4.4 4.8 6.5 4.2 21 71 Russian Federation 134.2 147.7 142.9 0.4 -0.2 66.4 76.5 82.0 47.5 42.6 12.2 13.7 1.9 1.3 72 Ecuador 6.9 11.9 15.9 2.5 1.6 42.4 60.4 70.6 66.3 50.0 4.5 6.2 5.7 3.1 57 73 Macedonia, TFYR 1.7 2.0 2.2 0.8 0.5 50.6 60.7 88.5 49.7 50.0 9.3 12.6 2.8 21.1 74 Latvia 2.5 2.5 2.1 (.) -1.0 65.4 73.4 78.9 49.9 45.8 13.6 16.8 2.0 1.3 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.9 0.6 50.0 50.6 60.7 88.5 49.7 50.0 9.3 12.6 2.8 2.1 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.9 0.6 50.0 50.6 60.7 88.5 49.7 50.0 9.3 12.6 2.8 2.1 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.9 0.6 50.0 50.6 50.0 68.0	65 Libyan Arab Jamahiriya	2.4	5.2	7.6	3.5	2.1	60.9	86.4	90.3	75.0	55.7	3.0	4.8	7.5	3.8	
67 Thisland 68 Romania 21.2 22.5 21.1 0.3 -0.4 46.2 56.8 52.4 46.9 47.5 42.6 12. 57 69 Lebanon 2.8 3.1 3.9 0.6 13.6 70.0 88.5 92.6 66.9 40.8 12.4 15.4 2.6 12. 57 69 Lebanon 2.8 3.1 3.9 0.6 13.6 70.0 88.5 92.6 66.9 43.5 5.7 5.9 4.5 2.7 63 70 Samoa (Western) 0.2 0.2 0.2 0.6 1.8 21.0 21.1 26.7 76.7 57.6 4.4 48.8 6.5 4.2 21 71 Russian Federation 134.2 147.7 142.9 0.4 -0.2 66.4 76.6 82.0 47.5 42.6 12.2 13.7 1.9 1.3 72 Ecuador 6.9 11.9 15.9 2.5 1.6 42.4 60.4 70.6 66.3 50.0 4.5 6.2 5.7 3.1 57 73 Mexedonia, TFYR 1.7 2.0 2.2 0.8 0.5 50.6 60.7 68.5 49.7 50.0 9.3 12.6 2.8 2.1 74 Latvia 2.5 2.5 2.5 1.0 1.1 0.1 0.9 0.6 50.4 73.4 78.9 49.9 45.8 13.6 16.8 2.0 1.3 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.1 0.9 0.6 20.6 50.9 68.0	66 Seycheiles	0.1	0.1	0.1	1.1	1.0	33.3	56.1	67.3	11	41	48	db	44	90	84
69 Lebanon 2.8 3.1 3.9 0.6 1.3 67.0 88.5 92.6 64.9 43.5 5.7 5.9 4.5 2.7 63 70 Samos (Western) 0.2 0.2 0.2 0.6 1.8 21.0 21.1 26.7 76.7 57.6 4.4 4.8 6.5 4.2 21 71 Russian Federation 134.2 147.7 142.9 0.4 -0.2 66.4 76.6 82.0 47.5 42.6 12.2 13.7 1.9 1.3 72 Ecuador 6.9 11.9 15.9 2.5 1.6 42.4 60.4 70.6 66.3 50.0 4.5 6.2 5.7 3.1 57 73 Macedonia, TFTR 1.7 2.0 2.2 0.8 0.5 50.6 60.7 68.5 49.7 50.0 9.3 12.6 2.8 2.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2				68.9	1.7	0.8	15.1	20.6	29.3	47.3	41.2	5.3				74
70 Samoa (Western)  0.2  0.2  0.2  0.6  1.8  21.0  21.1  26.7  76.														2.6	1.2	57
71 Russian Federation 134.2 147.7 142.9 0.4 -0.2 66.4 76.6 82.0 47.5 42.6 12.2 13.7 1.9 1.3 72 Equador 6.9 11.9 15.9 2.5 1.6 42.4 60.4 70.6 66.3 50.0 4.5 6.2 5.7 3.1 57 73 Macedonia, TYPR 1.7 2.0 2.0 8.0.5 50.6 60.7 68.5 49.7 50.0 9.3 12.6 2.8 2.1 74 Latwia 2.5 2.5 2.5 2.1 () -1.0 65.4 73.4 78.9 49.9 45.8 13.6 16.8 2.0 1.3 75 Saint Vircent and the Grenadines 0.1 0.1 0.1 0.9 0.6 20.6 50.9 68.0																
72 Ecuador 6.9 11.9 15.9 2.5 1.6 42.4 60.4 70.6 66.3 50.0 4.5 6.2 5.7 3.1 57 73 Macedonia, TFYR 1.7 2.0 2.2 0.8 0.5 50.6 60.7 68.5 49.7 50.0 9.3 12.6 2.8 2.1 74 Lativia 2.5 2.5 2.1 () -1.0 65.4 73.4 78.9 49.9 48.8 13.6 16.8 2.0 1.3 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.9 0.6 20.6 50.9 68.0					0.6			21.1	26.7	76.7	57.6	4.4	4.8	6.5	4.2	21
73 Macedonia, TFYR  1.7 2.0 2.2 0.8 0.5 50.6 60.7 68.5 49.7 50.0 9.3 12.6 2.8 2.1 .  74 Lavia  2.5 2.5 2.5 2.1 (.) -1.0 65.4 73.4 78.9 49.9 45.8 13.6 16.8 2.0 1.3  75 Saint Vincent and the Grenadines  0.1 0.1 0.1 0.9 0.6 20.6 50.9 68.0											42.6	12.2	13.7	1.9	1.3	
74 Latvia 2.5 2.5 2.1 (.) -1.0 65.4 73.4 78.9 49.9 45.8 13.6 16.8 2.0 1.3 75 Saint Vincent and the Grenadines 0.1 0.1 0.1 0.9 0.6 20.6 50.9 68.0																57
75 Saint Vincent and the Grenadines																7
76 Kazakhstan 14.1 16.4 16.9 0.7 0.2 52.2 60.4 68.4 56.3 46.8 7.0 8.4 3.2 2.3 59 77 Philippines 43.0 71.4 96.7 2.3 1.7 35.6 56.0 67.8 70.0 51.4 3.5 5.0 5.1 3.6 40 78 Saudi Arabia 7.3 19.5 32.6 4.6 2.9 58.4 84.1 89.7 78.5 69.1 2.8 4.4 7.3 5.8 79 Brazil 108.2 163.7 200.7 1.9 1.1 61.2 79.6 86.5 55.0 46.0 4.9 7.2 4.5 2.3 77 80 Peru 15.2 24.4 31.9 2.2 1.5 61.5 71.6 77.9 65.2 49.7 4.5 6.5 5.6 3.0 64 81 Saint Luda 0.1 0.1 0.2 1.4 1.3 38.6 37.3 43.6																
77 Philippines																
78 Saudi Arabia 73 19.5 32.6 4.6 2.9 58.4 84.1 89.7 78.5 69.1 2.8 4.4 7.3 5.8 79 8 razil 108.2 163.7 200.7 1.9 1.1 61.2 79.6 86.5 55.0 46.0 4.9 7.2 4.5 2.3 77 80 Peru 15.2 24.4 31.9 2.2 1.5 61.5 71.6 77.9 65.2 49.7 4.5 6.5 5.6 3.0 64 81 Saint Lucia 0.1 0.1 0.2 1.4 1.3 38.6 37.3 43.6																
79 Brazil 108.2 163.7 200.7 1.9 1.1 61.2 79.6 86.5 55.0 46.0 4.9 7.2 4.5 2.3 77 80 Peru 15.2 24.4 31.9 2.2 1.5 61.5 71.6 77.9 65.2 49.7 4.5 6.5 5.6 3.0 64 81 Saint Lucia 0.1 0.1 0.2 1.4 1.3 38.6 37.3 43.6																
80 Peru 15.2 24.4 31.9 2.2 1.5 61.5 71.6 77.9 65.2 49.7 4.5 6.5 5.6 3.0 64  81 Saint Lucia 0.1 0.1 0.2 1.4 1.3 38.6 37.3 43.6	79 Brazil															
82 Jamaica 2.0 2.5 2.9 1.0 0.9 44.1 54.7 63.5 65.2 47.1 7.1 7.5 4.4 2.5 65 83 Belize 0.1 0.2 0.3 2.4 2.0 50.2 46.4 51.0 82.8 51.0 4.3 4.4 6.3 3.7 47 84 Paraguay 2.7 5.1 7.8 3.0 2.4 39.0 53.9 65.0 79.8 62.1 3.5 4.3 5.3 4.2 51 85 Georgia 4.9 5.1 5.1 0.2 (.) 49.5 59.3 67.7 54.2 50.1 12.0 13.8 2.5 1.9 86 Turkey 40.0 63.4 80.3 2.1 1.3 41.6 71.9 84.5 54.2 45.5 5.4 7.2 4.7 2.5 63 87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60 88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 95 Iran, Islamic Rep. of 33.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3	80 Peru	15.2	24.4	31.9	2.2	1.5	61.5									
82 Jamaica 2.0 2.5 2.9 1.0 0.9 44.1 54.7 63.5 65.2 47.1 7.1 7.5 4.4 2.5 65 83 Belize 0.1 0.2 0.3 2.4 2.0 50.2 46.4 51.0 82.8 51.0 4.3 4.4 6.3 3.7 47 84 Paraguay 2.7 5.1 7.8 3.0 2.4 39.0 53.9 65.0 79.8 62.1 3.5 4.3 5.3 4.2 51 85 Georgia 4.9 5.1 5.1 0.2 () 49.5 59.3 67.7 54.2 50.1 12.0 13.8 2.5 1.9 86 Turkey 40.0 63.4 80.3 2.1 1.3 41.6 71.9 84.5 54.2 45.5 5.4 7.2 4.7 2.5 63 87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60 88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Gman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 5ri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 95 Iran, Islamic Rep. of 33.3 64.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3	81 Saint Lucia	0.1	0.1	0.2	1.4	1.3	38.6	37.3	43.6							47 b
83 Belize 0.1 0.2 0.3 2.4 2.0 50.2 46.4 51.0 82.8 51.0 4.3 4.4 6.3 3.7 47 84 Paraguay 2.7 5.1 7.8 3.0 2.4 39.0 53.9 65.0 79.8 62.1 3.5 4.3 5.3 4.2 51 85 Georgia 4.9 5.1 5.1 0.2 () 49.5 59.3 67.7 54.2 50.1 12.0 13.8 2.5 1.9 86 Turkey 40.0 63.4 80.3 2.1 1.3 41.6 71.9 84.5 54.2 45.5 5.4 7.2 4.7 2.5 63 87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60 88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 57 Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 54.9 49.9 51 Janki Republic 8.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 77.0 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3		2.0	2.5													
85 Georgia 4.9 5.1 5.1 0.2 (.) 49.5 59.3 67.7 54.2 50.1 12.0 13.8 2.5 1.9  86 Turkey 40.0 63.4 80.3 2.1 1.3 41.6 71.9 84.5 54.2 45.5 5.4 7.2 4.7 2.5 63  87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60  88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64  89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40  90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66  91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4  92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56  93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 55.4 17  94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53  95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73  96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6  97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60  98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83  99 Guyana 0.7 0.8 1,0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3				0.3	2.4	2.0	50.2	46.4								
86 Turkey 40.0 63.4 80.3 2.1 1.3 41.6 71.9 84.5 54.2 45.5 5.4 7.2 4.7 2.5 63 87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60 88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3							39.0	53.9	65.0	79.8			4,3	5.3	4.2	51
87 Armenia 2.8 3.6 3.8 1.0 0.4 63.0 69.1 75.0 54.0 42.4 7.9 9.6 2.7 1.7 60 88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3			5.1	5.1	0.2	(,)	49.5	59.3	67,7	54.2	50.1	12.0	13,8	2.5	1.9	+1
88 Dominican Republic 5.0 8.1 10.3 2.2 1.3 45.3 63.3 72.8 62.7 49.0 4.2 6.6 5.1 2.8 64 89 Oman 0.9 2.3 4.1 4.5 3.3 19.6 79.5 92.8 91.4 81.7 2.5 3.7 7.2 5.9 40 90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3								71.9	84.5	54.2	45.5	5.4	7.2	4.7	. 2.5	63
89 Oman 90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 9.2 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3										54.0	42.4	7.9		2.7	1.7	60
90 Sri Lanka 13.6 18.3 21.9 1.4 1.0 22.0 22.6 32.0 52.4 47.5 6.3 9.3 3.9 2.1 66 91 Ukraine 49.0 51.1 47.9 0.2 -0.4 58.3 71.1 78.0 49.9 45.4 14.0 16.2 2.0 1.4 92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 4.5 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3	, and the second													5.1	2.8	
91 Ukraine																
92 Uzbekistan 14.0 23.2 29.9 2.3 1.4 39.1 41.6 50.1 77.0 50.8 45.4 4.6 5.5 3.4 56 93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3											47.5	6.3	9.3	3.9	2.1	66
93 Maldives 0.1 0.3 0.4 3.0 2.6 18.0 27.4 36.3 92.5 68.0 3.5 3.3 7.0 5.4 17 94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3															1.4	
94 Jordan 2.6 6.1 9.9 4.0 2.7 55.3 72.6 79.8 83.0 67.0 2.9 3.4 7.6 4.9 53 95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73 96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6 97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60 98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3																
95 Iran, Islamic Rep. of 33.3 64.6 83.1 3.1 1.4 45.8 60.0 68.8 78.8 46.1 4.1 4.8 6.4 2.8 73  96 Turkmenistan 2.5 4.2 5.6 2.4 1.5 47.6 45.0 52.4 76.1 48.8 4.2 4.4 5.7 3.6  97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60  98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83  99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3																
96 Turkmenistan 2.5	95 Iran, Islamic Rep. of															
97 Kyrgyzstan 3.3 4.6 5.5 1.5 0.9 37.9 39.2 47.9 73.0 48.8 5.9 5.8 4.3 3.2 60  98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83  99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3	96 Turkmenistan	2.5														13
98 China 927.8 1,244.2 1,417.7 1.3 0.7 17.3 31.9 45.9 47.8 40.6 6.4 9.3 3.9 1.8 83 9.7 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3																
99 Guyana 0.7 0.8 1.0 0.6 0.7 30.0 36.4 48.0 55.3 41.3 4.1 5.7 4.3 2.3																
100 Albania		0.7		1.0												
	100 Albania	2.4	3.1	3.5	1.2	0.6	32.8	37.9								**

### 16 Demographic trends

	_	Total opulatio	n	growt (9	eual lation th rate %)	*	Urban opulation % of tot		ra	ndency tio	age and	ulation ed 65 above of total)	fer	otal tility ate	Contraception prevalence rate (%)
HDI rank	1975	1997	2015	1997	2015	1975	1997	2015	1997	2015	1997	2015	1975	1997	
101 South Africa 102 Tunisia 103 Azerbaijan 104 Moldova, Rep. of 105 Indonesia	24.7 . 5.7 5.7 3.8 135.7	38.8 9.2 7.6 4.4 203.4	43.4 11.6 8.8 4.5 250.4	2.1 2.2 1.4 0.6 1.9	0.6 1.3 0.8 0.1 1.2	48.0 49.9 51.5 35.8 19.4	49.7 63.4 56.3 53.1 37.4	56.3 73.5 64.0 63.9 52.4	64.4 61.7 59.3 53.3 57.3	53.6 45.4 41.3 43.1 44.9	3.5 5.7 6.3 9.5 4.5	4.0 6.1 7.7 10.8 6.3	4.6 5.9 3.9 2.5 4.9	3.3 2.6 2.0 1.8 2.6	50 b 60  55
106 Cape Verde 107 El Salvador 108 Tajikistan 109 Algeria 110 Viet Nam	0.3 4.1 3.4 16.0 48.0	0.4 5.9 5.9 29.4 76.4	0.6 8.0 7.8 41.2 96.6	1.7 1.7 2.5 2.8 2.1	2.1 1.7 1.5 1.9 1.3	21.4 40.4 35.5 40.3 18.8	57.7 45.6 32.4 57.2 19.5	73.5 53.6 40.1 67.5 24.3	82.6 70.3 85.7 71.7 68.3	54.0 55.3 56.5 51.2 43.0	4.6 4.8 4.4 3.6 5.1	3.2 6.1 4.3 4.4 5.3	6.8 5.9 6.3 7.3 5.8	3.6 3.2 4.2 3.8 2.6	27 53  57 65
111 Syrian Arab Republic 112 Bolivia 113 Swaziland 114 Honduras 115 Namibia	7.4 4.8 0.5 3.0 0.9	14.9 7.8 0.9 6.0 1.6	22.6 11.2 1.5 9.0 2.0	3.2 2.3 3.0 3.2 2.7	2.3 2.1 2.6 2.3 1.3	45.1 41.5 14.0 32.1 20.6	53.1 62.3 33.0 45.0 38.0	62.1 73.7 47.2 56.1 53.2	86.2 79.0 86.0 86.1 84.3	58.0 62.7 68.9 60.2 74.5	3.0 3.9 2.6 3.3 3.8	3.4 4.9 3.5 4.3 3.1	7.5 6.1 6.5 6.8 6.0	4.0 4.4 4.7 4.3 4.9	36 45 21 <sup>b</sup> 50 29
116 Vanuatu 117 Guatemala 118 Solomon Islands 119 Mongolia 120 Egypt	0.1 6.0 0.2 1.4 38.8	0.2 10.5 0.4 2.5 64.7	0.3 16.4 0.7 3.3 85.2	2.5 2.6 3.5 2.6 2.3	2.3 2.5 2.8 1.5 1.5	15.7 36.7 9.1 48.7 43.5	19.3 39.4 18.0 61.9 45.1	27.0 48.3 28.6 70.5 53.5	85.9 92.2 87.6 69.6 70.1	63.0 69.9 68.9 43.5 47.3	3.4 3.4 2.9 3.8 4.0	4.1 3.8 . 3.8 4.5 5.2	5.9 6.4 7.2 7.0 5.3	4.3 4.9 4.9 2.6 3.4	15 31 25 59 55 49
121 Nicaragua 122 Botswana 123 São Tomé and Principe 124 Gabon 125 Iraq	2.5 0.8 0.1 0.6 11.0	4.7 1.5 0.1 1.1 21.2	7.3 2.0 0.2 1.7 34.1	2.9 3.3 2.5 3.0 3.0	2.5 1.4 1.8 2.1 2.7	50.3 12.0 26.9 29.2 61.4	63.2 66.1 44.5 52.2 75.5	71.3 88.7 56.2 66.2 81.6	89.2 83.7  82.4 82.8	64.3 64.7  77.9 69.0	3.0 2.4 5.9 3.0	3.8 2.4  5.4 4.0	6.5 6.5 4.3 6.8	4.4 4.4 5.4 5.3	48 10 <sup>b</sup> 
126 Morocco 127 Lesotho 128 Myanmar 129 Papua New Guinea 130 Zimbabwe	17.3 1.2 30.4 2 7 6.1	26.9 2.0 43.9 4.5 11.2	34.8 2.9 53.5 6.5 13.6	2.0 2.4 1.7 2.3 2.8	1.4 2.0 1.1 2.1 1.1	37.7 10.8 23.9 11.9 19.6	53.3 25.6 26.5 16.6 33.2	64.3 38.9 36.7 23.7 45.9	61.8 79.3 52.8 73.0 83.7	46.2 72.7 42.7 61.2 56.3	4.3 4.1 4.5 3.0 2.8	5.3 4.5 6.0 3.7 2.4	6.3 5.8 5.5 6.0 6.8	3.1 4.8 2.4 4.6 3.8	59 23 33 26 48
131 Equatorial Guinea 132 India 133 Ghana 134 Cameroon 135 Congo	0.2 620.7 9.8 7.5 1.4	0.4 966.2 18.7 13.9 2.7	0.6 1,211.7 29.8 21.5 4.4	2.9 2.0 3.0 2.8 2.9	2.4 1.3 2.6 2.4 2.8	27.1 21.3 30.1 26.9 34.8	44.7 27.4 36.8 46.4 60.2	61.4 35.9 47.8 58.9 70.1	89.7 65.0 89.9 90.4 97.7	77.2 47.3 73.3 79.8 84.9	4.0 4.7 3.1 3.6 3.3	3.7 6.4 3.7 3.5 2.8	5.7 5.1 6.5 6.4 6.3	5.6 3.1 5.2 5.3 6.1	41 20 16
136 Kenya 137 Cambodia 138 Pakistan 139 Comoros	13.7 7.1 74.7 0.3	28.4 10.5 144.0 0.6	37.6 14.4 222.6 1.0	3.4 1.8 3.0 3.2	1.6 1.8 2.4 2.5	12.9 10.3 26.4 21.2	30.4 21.6 35.4 31.5	44.5 32.9 46.7 42.6 39.0	91.8 83.1 83.8 86.3	62.1 58.8 64.0 66.5	3.0 3.0 3.1 2.6	2.5 4.0 3.8 3.2	8.2 4.5 7.0 7.0	4.5 4.6 5.0 4.8	33 13 17 21
Low human development	355.61				2.3	15.6	27.5	32.7	90.9	75.1	3.2	3.8	6.5	5.8	19
140 Lao People's Dem. Rep. 141 Congo, Dem. Rep. of the 142 Sudan 143 Togo 144 Nepal 145 Bhutan	3.0 23.3 16.0 2.3 12.8 1.2	5.0 48.0 27.7 4.3 22.3 1.9	7,8 80,3 39,8 6,7 32,7 3,1	2.3 3.3 2.5 2.9 2.6 2.3	2.5 2.9 2.0 2.6 2.1 2.6	11.4 29.5 18.9 16.3 5.0 3.5	21.8 29.2 33.3 31.7 10.9 6.5	39.3 48.7 42.5 18.1 11.6	101.8 78.9 96.8 84.1 87.6	89.2 64.7 81.5 63.2 75.1	2.8 3.0 3.1 3.6 4.0	2.8 4.2 3.0 4.1 4.4	6.4 6.7 6.6 6.3 5.9	6.4 4.6 6.1 4.5 5.5	8 8 24 30 19
146 Nigeria 147 Madagascar 148 Yemen 149 Mauritania 150 Bangladesh	57.0 7.8 7.0 1.4 76.6	103.9 14.6 16.3 2.5 122.7	153.3 23.4 29.6 3.9 161.5	2,8 2.9 3.9 2.7 2.2	2.2 2.6 3.4 2.6 1.5	23.4 16.1 16.4 20.3 9.3	41.3 27.6 35.3 54.0 19.4	55.4 39.3 49.2 68.6 30.8	88.7 89.7 100.7 89.4 69.9	74.2 71.2 85.7 75.0 50.0	3.0 3.0 2.4 3.2 3.2	3.4 3.1 2.3 3.4 4.3	6.9 6.6 7.6 6.5 6.8	5.2 5.4 7.6 5.5 3.1	19 21 4

16 Demographic trends

		Tota populat (million	tion	grow	inual ulation th rate %)		Urba popular as % of t	tion		endency ratio	/ a	pulation ged 65 d above % of total	fe	Total ertility rate	Contraceptive prevalence rate
HDI rank	1975	1997	2015	1997	2015	1975	1997	2015	199.	7 2015					/%) 7 1990-98*
151 Zambia	4.8	8.6	5 12.8	2.6	2.3	34.8	42.0		444						- 70
152 Haiti	4.9			2.1	1.6		43.6	- 170					7.1	5.6	26
153 Senegal	4.8			2.8		21.7	33.0					3.9	5.8	44	18
154 Côte d'Ivoire	6.8				2.5	34.2	45.0		90.9	75.5	2.5	2.7	70	56	. 3
155 Benin	3.0			3.4	2.0	32.1	44.7	55.7	89.3		2.8	3.1	7.4	5.1	11
ADD Towns to the man	5.0	3.0	8.9	2.8	2.6	21.9	39.9	53.0	100.1	78.8	2.9	2.8	7.1	5,8	37
156 Tanzania, U. Rep. of	15.9	31.4	47.2	3.1	2.3	10.1	25.7	38.3	94.1	78.8	2.0	2.1	-		
157 Djibouti	0.2	0.6	0.9	5,1	1,9	68.5	82.7	86.3	79.8		2.6	2.7	6.8	55	18
158 Uganda	11.2	20.0	34.5	2.7	3.1	8.3	13.2	20.7			3.2	4.3	6 7	53	
159 Malawi	5.2	10.1		3.0	2.5	7.7			107.9		2.2	1.7	6.9	7.1	15
160 Angola	6.1	11.7		3.0	2.9		14.2	22.7	99.7	86,1	2.7	25	7.5	68	* 4
161 Guinea			1 45 5	3.0	2.9	17.8	32.3	44,1	102.3	88.0	2.9	2.9	6.7	6.8	8
162 Chad	4.1	7.3	10.5	2.6	2.0	16.3	30.6	42.9	91.3	73.8	2.7	3.0	2.0		
	4.0	7.1	11.2	2.6	2.6	15.6	22.8	30.9	97.5	83.1		3.0	7.0	5.5	29
163 Gambia	0.5	1.2	1.8	3.6	2.4	17.0	30.4	42.5	77.6		3.4	3.1	6.6	b 1	-1
164 Rwanda	4.4	6.0	10.5	1.4	3.2	4.0	5.8	8.9		69 2	3.0	3.9	6.5	5 2	12
165 Central African Republic	2.1	3.4	4.8	2.3	1,9	33.7	39.9		94.9	77.1	2.3	2.4	8.5	02	
166 Malı	67	10.4				22 1	33.9	49.7	88.2	743	3.9	3 4	5.8	14	1 °,
167 Eritrea	6.2	10.4	16.7	2.4	2.6	16.2	28.1	40.1	101,8	86.6	3.6	3.8	7,1	66	1
168 Guinea-Bissau	2.1	3.4	5.5	2.3	27	12.2	17.7	26.2	89 4	75.5	2.8	3.4			7
169 Mozambique	0.6	1.1	1.6	2.7	2.0	16.0	22.5	317	88 0	81.4	41		64	57	8
170 Burundi	10.5	18.4	25.2	2.6	1.8	8.6	36.5	51.5	92.8	84.5		3.9	5 5	58	1 1
	3.7	6.4	9.5	25	2.2	3.2	8,1	145	97.1		3 3	2.6	6.5	6.3	G
171 Burkina Faso	6.1	11.0	18.1	2.2	2.0			14 )	31.1	75.2	2.8	2.3	6.8	63	9
172 Ethiopia	32.2	58.2		27	2.8	63	16.9	27.4	100.6	88 1	26	2.4	7.8	66	8
173 Niger	4.8		90.9		2.5	9.5	16.3	25.8	955	86.6	2.9	2.7	6.8	63	1
174 Sierra Leone	2.9	9.8	16 7		3.0	10.6	19.1	29.1	103.4	87.5	2.5	2.6	8 1		
	2.9	4.4	6.7	1.9	2.3	21,4	34.6	46 7	88 9	80.3	2.9	3.0	6.5	68	4
all developing countries	2.928.0 T	4 502 9 T	5 750 8 7	2.0	1.4	25.									
Least developed countries	327.21	568 4 1			1.4	26 1	38 4	491	62.5	50.7	49	64	50	30	
Sub-Saharan Africa	303 1 7	555.4 1			2.2	14.2	23.8	346	84.8	70.8	32	3.4	6.6	50	
Arab States	137.47	252 4 T			2.3	21.0	32.4	432	91.4	77.6	30	3.0	6.7	55	
East Asia			365 1 7		2 1	42.1	55.6	65.7	74.3	57.4	36	4.5	6.4		
East Asia (excluding China)		1,299 D T		1.3 (	0.7	18.8	34.1	478	47.5	406	6.5			41	
South-East Asia and the Pacific	41.17	54,8 7		13 (	).7	525	839	914	41.2	411	6.5	9.4	39	18	
South Asia	327 1 7			20 1	3	223	34.8	46.3	60.0			10.6	35	1,7	
South Asia (excluding India)		,340.3 T 1	1,737.0 T	2.2 1	.5	21.4	28.9	38 4	68 1	45.8	4.5	6.1	50	27	
Latin America and the Caribbean	212.41	374,1 T		2.6	.9	216		438		49,8	4.5	58	5 4	3.3	
Astern Europe and the CIS		490,4 T	624.9 T		.4	61.2	74.2		76 5	55.8	3.6	4.4	66	3.8	
								79 9	61.5	50.2	5.2	7.1	4.7	27	
dustrialized countries	735.5 T	842 0 T	889 4 7		_			722	51.2	44 7	114	13.0	2.4	16	
forld	4,017.41 5,	743.7 T 7	040 2 T						49.7	52.7	145	183	19	16	
Data refer to the most recent year available						37.8	46.1	54,4	59.6	50.6	6.8	8.3	4.1	2.7	

recent year available during the penod specified in the column heading.

b. Data refer to a year or period other than that specified in the column heading, differ from the standard definition or refer to only part of the country. Source: Columns 1-3, 13 and 14 UN 1998h; columns 4, 5 and 9-12 calculated on the basis of data from UN 1998h, columns 6-8. UN 1996h, column 15: UNICEF 1999a



	Electri	icity consu	mption					Comme (oil	<b>rciał en</b> equivale				-	let nercial
The second second	Total (millions of kilowatt- hours)	<b>Index</b> (1980 = 100)	ca (kik	Per pita pwatt- purs)	consu (as	itional uel mption % of tal)	(1, me	otal 000 etric ons)	ca	<b>er</b> p <b>ita</b> grams)	out	per per gram \$\rangle	imp (a: of e	ergy corts s % nergy mption)
HDI rank	1996	1996	1980	1996	1980	1995	1980	1996	1980	1996	1980	1996	1980	1996
High human development	8,644,140	T 159	6,361	8,550	4+	81	4,034,488	T 5,015,657 1	4,468	4,977	2.8	3.2	25	22
1 Canada	620,441	177	14,243	20,904	1	- 1	193,000	236,170	7,848	7,880	2.1	2.5	-7	-51
2 Norway	103,732	125	20,327	23,830	1	1	18,819	23,150	4,600	5,284	5.1	6.7	-196	-799
3 United States	3,496,590	147	10,334	12,977	1	4	1,811,650	2,134,960	7,973	8,051	2.7	3.4	14	21
4 Japan	1,012,145	175	4,944	8,074	(.)	1	346,491	510,359	2,967	4,058	9.3	10.5	88	80
5 Belgium	80,300	159	5,125	7,904	(.)	1	46,100	56,399	4,682	5,552	4.6	4.9	84	79
6 Sweden	144,837	150	11,655	16,423	4	3	40,984	52,567	4,932	5,944	4.5	4.5	61	39
7 Australia	177,326	184	6,599	9,820	2	4	70,372	100,612		5,494	3.3	3.7	-22	-88
8 Netherlands	95,676	148	4,560	6,143	(.)	(.)	65,000	75,797	4,594	4,885	4.4	5.4	-11	3
9 Iceland	5,131	163	13,838	18,934	40	**	1,469	2,270	6,445	8,408	3.5	3.2	43	38
10 United Kingdom	364,725	129	5,020	6,249	(.)	1	201,299	234,719	3,574	3,992	4.0	4.8	2	-14
_		176		7,508	1	1	190,111	254,196	3,528	4,355	6.1	6.1	76	49
11 France	438,233	176	4,615	7,734	1	2	20,861	25,622	3,301	3,622	12.1	12.0	66	59
12 Switzerland	56,111	151 199	5,855 8,351	15,515	4	6	25,413	31,482		6,143	3.7	4.1	73	57
13 Finland	79,529		•	6,605		1	360,441	349,552	4,603	4,267	88	7,0	48	60
14 Germany	541,113 39,328	152	5,054	7,510	(.)	4	19,734	22,870	3,852	4,346	6.8	8.2	95	23
15 Denmark		132							•			07	67	71
16 Austria	55,787	148	4,988	6,882	1	3	23,450	27,187		3,373	7.1 2.4	8.7 5.2	99	99
17 Luxembourg	6,211	165	10,330	15,075	(.)		3,643	3,445	9,983	8,291	4.7	3.8	41	17
18 New Zealand	35,932	163	7,061	9,976	(.)	1	9,251	16,295	2,972			6.8	86	82
19 Italy	278,796	147	3,357	4,870	1	2	138,629	161,140	2,456		6.0 4.0	5.9	78	71
20 Ireland	19,044	180	3,106	5,358	(.)	(.)	8,484	11,961	2,495	3,293				
21 Spain	173,280	161	2,872	4,368	1	1	68,583	101,411	1,834		5.7	5,6	77	68
22 Singapore	23,458	343	2,836	6,932	8+		6,054	23,851	2,653	7,835	4.6	3.8		100
23 Israel	32,161	260	3,187	5,678	(,)	10	8,609	16,185	2,220	2,843	5.1	5.6	98	96
24 Hong Kong, China (SAR)	35,687	289	2,449	5,764	1		5,681	12,190		1,931	10,0	12.0	99	100
25 Brunel Darussalam	1,575	336	2,430	5,250	5	419	348	3,347	1,806	11,118	16.5	1.5	-5,263	-470
26 Cane	2,592	251	1,692	3,429	(.)	0.0	945	2,122	1,546	2,868	45	01	99	99
26 Cyprus 27 Greece	48,586	209	2,413	4,632	3	1	15,960	24,389	1,655	2,328	5.7	4.8	77	64
28 Portugal	34,643	203	1,750	3,532	1	1	10,291	19,148	1,054	1,928	6.8	5.6	86	87
29 Barbados	650	196	1,333	2,490	17	11		14	49	**	94	49	**	- 11
30 Korea, Rep. of	227,554	568	1,051	5,022	6	1	43,756	162,874	1,148	3,576	3.1	3.0	72	86
			Ť					**	**	14	**	**		**
31 Bahamas	1,340	157	4,062	4,718	40	64	402	894		2,398	4.3	3.8	44	54
32 Malta	1,514	287	1,627	4,103	84	1	4,313	6,167		3,098	=4	3.1	62	55
33 Slovenia	11,109	200	1.054	5,774 2,169	14	13	9,525	20,456		1,419	2.8	3.1	41	62
34 Chile	31,278	266	1,054 6,849	15,368		44	9,564	13,859	6,956	8,167	2.4	2.0	-884	-712
35 Kuwait	25,925	275	0,043		80					3,917		1.3	9	22
36 Czech Republic	60,974	**	44	5,948	pu.	1	46,910	40,404 6,555	,	10,943	1.2	0.9	-54	-17
37 Bahrain	5,016	302	4,784	8,800	19	14	3,324						**	44
38 Antigua and Barbuda	98	163	984	1,485	99	4	A1 0C0	58,921	1 490	1,673	5.7	5.0	7	-27
39 Argentina	73,109	**	+1	2,076	7	4	41,868 2,637	2,955	905	912	5.8	6.4	75	65
40 Uruguay	6,538	193	1,163	2,041	20	25					2.0			
41 Qatar	6,340	261	10,616	11,362	(.)	110	4,796	8,733	20,945		**	1.1	-481	-239
42 Slovakia	28,800		l+	5,386	64	1	20,810	17,449	,	3,266	**	1.1	84	72
43 United Arab Emirates	19,250	306	6,204	8,518	da .	as	8,576	32,336		13,155	0.0	1.2	-995	-360
44 Poland	136,679	112	3,419	3,541	(.)	1	124,806	108,411		2,807	0.9	1.2	50	67
45 Costa Rica	4,997	227	964	1,428	33	11	1,527	2,248	669	657	3.7	4.0		
Medium human development	4,637,147	283	424	1,147		1.	2,707,998	1 3,988,626			0.9	0.9	-34	-29
46 Trinidad and Tobago	4,541	221	1,900	3,501	2	1	3,873	7,887		6,081	1.3	0.7	-239	-72
47 Hungary	36,414	116	2,920	3,624	2	2	28,895	25,470		2,499	1.6	1.8	48	50
48 Venezuela	72,529	202	2,379	3,251	1	1	35,026	54,962	*	2,463	1.7	1.4		-253
49 Panama	3,978	219	930	1,486	27	18	1,865	2,280	957		2.8	3.6		
50 Mexico	162,625	241	999	1,754	4	4	98,904	141,384	1,464	1,525	2.3	2.1	-51	-51

17 Energy use	17	Ene	rqv	use
---------------	----	-----	-----	-----

HDI rank	)	Total (millions				Ton	40.0				Bearing Lond			COL	THE OWNER OF	
(10) Idill	HDI rank		index (1980 = 100)	(k	Per capita (kilowatt-hours)		Traditional fuel consumption (as % of total)		Total (1,000 metric tons)		Per capita (kilograms)		GDP output per kilogram (USS)*		commercial energy imports (as % of energy ransumption)	
		1996	1996	1980	1996	1980	1995	1980	1996	198	0 1996	1980	1996	1980	0 1996	
51 Sai	int Kitts and Nevis	88	}		2,146											
52 Gre	enada	95		281			8.0		,	**	**				4+	
53 Do		37	336	149	,		11		60	B-0	Pf ds	14	40	40	84	
54 Est	tonia	8,243	40	_	5.004		2		5,62	1	. 3,834	41	0.9	4.5		
55 Cro	patia	12,878			2,861	66	3		. 6,76		1,418	100	2.8		31	
56 Ma	alaysia	52,986	521	740	2,575	14	6	11.13				""		-	42	
57 Col	fombia	44,769		778	1,228		22	11,12			-,	2,9	2.3	-50	-69	
58 Cul	ba	13,236		1,029	1,201	28	22	19,12				2.4	2.6	5	-113	
59 Ma	uritius	1,255	269	482	1,112	44	38	14,570	0 15,95	3 1,50	1 1,448	1.0	91	73	58	
60 Bela	arus	32,271		14	3,119	47	1	2,38				74		64	41	
61 Fill		545	176		,			2,30;	5 24,56	247	2,386	69	0.8	-8	87	
62 Lith	uania	11,630		489	684	32	52		м .			11	**	20	41	
63 Bulo		42,267	109	A 771	3,120	10	6	11,701		,	2,414	**	0.8	95	53	
64 Sun		1,621	103	4,371 4,442	4,991	I	ī	28,673	22,605	3,235	2,705	0.4	0.5	73	54	
65 Liby	an Arab Jarnahiriya	18,300	379	1,588	3,752 3,272	1	4	*				20	61	41	0	
66 Seyo	rhelles					2	1	7,173	14,911	2,357	2,935	40	80	-1,248	-421	
67 Thai		128	256	794	1,730	15	49		41	64	**	0-4	**	**	34	
68 Rom		92,183	581	340	1,570	48	33	22,740	79,987	487		2.3	2.2	51	45	
69 Leba		62,157 5,795	91	3,061	2,744	1	22	64,694	45 824	2,914	2,027	0.6	0.7	19	32	
	ioa (Western)	65	206 <b>167</b>	1,056	1,879	4	3	2,483	4,747	827	1,164	14		93	96	
			107	252	392	00	90	40		**	40	99	47	**		
77 Russ 72 Ecua	sian Federation	827,700	**	20	5,588	14	1	764,349	615,899	5,499	4,169		0.5	2	-54	
	redonia, TFYR	9,260	275	423	792	26	15	5,191		652	731	2.4	2.1	-126	-156	
74 Latvi		6,489	44	99	2,985	10	6	***			7 47 1					
	t Vincent and the Grenadines	6,351	244	- 11	2,536	111	18	566		223	1,674	16.0	1.5	54	76	
		66	244	276	584	88	10		92		14		10.0		70	
76 Kaza		65,502	dn	**	3,894	40	(,)	76,799	43,376	5,163						
77 Philip 78 Saud		34,775	193	373	502	36	32	21,212	37,992	439	<b>2,724</b> 528	1 7	0.5	0	-44	
79 Brazi		104,118	551	1,969	5,528	.,		35,357	92,243	3,773	4,753	3.0	2.1	5(	55	
80 Peru		326,373	234	1,145	2,026	41	31	108,997	163,374	896	1,012	4.7	4.4	1,4(8	415	
		20,038	200	579	837	19	25	11,700	13,933	675	582	4.1	4.3	-25	11	
81 Saint		115	198	504	799						-02	741	7.3	-43	- 11	
82 Jama		6,038	340	834	2,424	6	8	2,378	2 710	1.155	**		**	- 11		
83 Belize		177	328	370	808	53	40		3,718	1,115	1,465	1,3	1.1	91	85	
85 Georg	judy	7,938	1,092	233	1,601	66	51	2,094	4,285	677	065	7.0	70.6	**		
		7,315	0.0	0.0	1,344	44	1	4,474	1,576	672 882	865	2.8	2.1	23	-56	
86 Turke		90,695	368	554	1,468	18	A			902	291	2.7	2.1	-5	55	
87 Armei		6,214	**	.,	1,708		4	31,314	65,520	704	1,045	2.8	28	45	59	
	nican Republic	6,847	206	582	860	30	12	1,070	1,790	346	474	**	1.7	18	59	
89 Oman		8,979	938	847	3,901	4,		3,464 1,387	5,191	608	652	2.2	2.5	62	72	
90 Sri Lan	ıka	4,366	262	113	241	54	51	4,493	4,848	1,260	2,231	2.8		-994	876	
91 Ukrain	9	179,709	**		3,482				6,792	305	371	1.5	2.0	29	38	
92 Uzbeki		46,510	+5	*4	2,004	4.0	(.)	97,893	153,937	1,956	3,012		0.5	-12	49	
93 Maldivi	es	63	1,575	25	240	Pi	24	4,821	42,406	302	1,826	**	0.5	4	-12	
94 Jordan		6,058	566	366	1,085	13	81	. ma .	tre .	44	41	81	40	44	91	
95 Iran, Isla	amic Rep. of	82,600	369	570	1,180	(.) 2	4	1,714	4,487	786	1,040	2.2	1.5	100	96	
96 Turkmer	nistan	7,300				2	1	38,918	89,340	995	1,491	1.4		-116	147	
97 Kyrgyzst		11,400	+=		1,757		**	7,948	12,164	2,778	2,646	**	0.3	-1	-168	
98 China		1,078,910	359		2,551		**	1,717	2,952	473	645	**	1.2	-27	51	
99 Guyana		342	223	307	891	8	6	593,109	1,096,800	604	902		0.7	-3	(.)	
100 Albania		6,126		545 1,204	408	23	35	81	44	dn	14	**	11		43	
		-,		1,204	1,801	11	11	3,049	1,188	1,142	362		2.2	-12	9	

	Electric	ity consu	mption					Commer (oil	<b>cial ene</b> equivale					Net mercial
	Total (millions of kilowatt- hours)	Index (1980 = 100)	<b>ca</b> (kilo	er pita watt- urs)	consui (as <sup>c</sup>	tional rel mption % of tal)	Tot (1,0) met ton	al 00 ric	P ca;	er pita (rams)	out kilog	put er gram \$)*	en imp (a of e	ports s % energy mption)
HDI rank	1996	1996	1980	1996	1980	1995	1980	1996	1980	1996	1980	1996	1980	1996
101 South Africa 102 Tunisia 103 Azerbaijan 104 Moldova, Rep. of	188,237 7,851 17,530 7,728	188 281	3,025 434 	3,888 857 2,308 1,739	4 15 	4 14	65,355 3,900 15,002	99,079 6,676 11,862 4,601	2,370 611 2,433	2,482 735 1,570 1,064	1.7	1.4 2.9 0.3 0.6	-12 -79 1	-29 6 -21 99
105 Indonesia 106 Cape Verde 107 El Salvador	73,794 41 3,473	518 256 225	94 55 339	368 104 599	52  50	32  44	59,561  2,540	132,419  4,058	402  554	672  700	1.3	1.6	-116  25	-66  36
108 Tajikistan 109 Algeria 110 Viet Nam	15,320 20,378 16,320	., 286 388	381 78	2,581 708 217	3 53	 2 45	1,650 12,410 19,348	3,513 24,150 33,750	416 665 360	594 842 448	2.5	0.5 1.8 0.7	-20 -440 7	62 -381 -14
111 Syrian Arab Republic 112 Bolivia 113 Swaziland	17,278 3,227	458 206	433 292	1,186 425 	(.) 19	13	5,348 2,335 	14,541 3,633	614 436	1,002 479	1.7 2.3	1.2	-78 -84	-132 -44
114 Honduras 115 Namibia 116 Vanuatu	2,819 30	305  150	259  171	485  172	54  13	50	1,877	2,925	526	503	1.4	1.4	30	40
117 Guatemala 118 Solomon Islands 119 Mongolia	3,500 32 2,975	209 152 160	242 93 1,119	320 82 1,183	53 14 14	61 60 4	3,754	5,224	550	510	2.9	2.9	33	23
120 Egypt 121 Nicaragua 122 Botswana	50,660 1,923	182	433 380	801 454 "	5 48 36	43	15,970 1,562	37,790 2,391	391 535	638 525	1.8	1.6	-114 42	-58 37 
123 São Tomé and Principe 124 Gabon 125 Iraq	15 949 29,660	167 179 260	96 767 878	111 858 1,439	36 (.)	32 (.)	1,493 12,030	1,578 25,027	2,160 925	1,403 1,174	2.4	3.3	-532 - -1,036	1,149 -30
126 Morocco 127 Lesotho 128 Myanmar	13,228 	269  286	254  44	490  93	5  66	5  65	4,778  9,430	8,822  12,767	247  279	329  294	4.5 	4.2	82 -1	90  7
129 Papua New Guinea 130 Zimbabwe 131 Eguatorial Guinea	1,790 10,991 20	143 151 111	406 1,020 83	407 961 49	64 34 84	63 37 67	6,511	10,442	929	929	0.7	0.7	13	16
132 India 133 Ghana 134 Cameroon 135 Congo	433,914 5,808 2,753 553	364 119 190 339	173 451 168 98	459 326 203 207	35 68 69 56	23 79 80 51	242,024 4,071 3,687 845	450,287 6,657 5,000 1,205	352 379 426 506	476 380 369 457	0.6 1.0 1.7 1.5	0.8 1.0 1.7 1.9	8 19 -58 -370	13 16 -100 -854
136 Kenya 137 Cambodia 138 Pakistan 139 Comoros	3,920 201 56,946 17	217 201 380 170	109 15 176 26	141 20 407 27	75 71 27	78 90 20	9,791  25,479	13,279  55,903	589  308	476  446	1.0	1.1	19  18	15  26
Low human development	56,748 1		86	91			138,686 T	202,853	420	400	**	**	-68	-63
140 Lao People's Dem. Rep. 141 Congo, Dem. Rep. of the	517 4,420	238 102	68 161	103 94	87 80	90 91	8,706	13,799	322	305	1.0	0.5	(.)	1
142 Sudan 143 Togo 144 Nepal 145 Bhutan	1,338 408 1,243 261	153 211 499 1,186	47 74 17	49 97 56 144	76 38 95 100	83 70 91 81	8,169 4,663	10,787  6,974	437  322	320	0.5	0.7	13	12  9
146 Nigeria 147 Madagascar 148 Yemen	14,820 683	209 156	98 48	129 44	64 77	68 86 2	52,846  1,424	82,669  2,936	743  167	***	0.4	0.4	-181 96	-106 -519
149 Mauritania 150 Bangladesh	153 12,404	165 468	60 30	66 103	1 68	49	14,920	23,928	172		1.3	1.7		

1	7	En	er	αv	use
ш		-611	T.	ч.	u a

	Electr	icity cons	umption					Commercial energy use (oil equivalent)						
	Total (millions of kilowatt- hours)	Index (1980 = 100)	(ki	Per apita lowatt- ours)	consu (as	litional ruel Imption % of otal)	(1, m	otal 000 etric	c	Per apita ograms)	oı kild	oper ogram	en in (, of	mercial nergy nports as % energy umption)
HDI rank	1996	1996	1980	1996	1980	1995	1980	1996	1980	1996	1980	1996	1980	
151 Zambia	6,315	98	1,125	763	55	73	AFF1	F 700	70.					
152 Haiti	633	201	59	87	82	73	4,551	5,790			0.7	0.6	8	7
153 Senegal	1,160	183	115			87	2,099	1,968	392		1.5	1.4	11	19
154 Côte d'Ivoire	1,918	109		136	49	55	1,921	2,588	347		1.6	1.8	46	39
155 Benin			214	137	53	54	3,662	5,301	447	7 382	2.3	2,0	34	10
193 Bellili	270	221	35	49	85	89	1,363	1,920	394	341	0.9	1.1	- 11	-2
156 Tanzania, U. Rep. of	1,737	227	41	56	84	91	10,280	13,798	553	453		0.3	8	
157 Djibouti	185	158	416	300	84	64	, - 0				6.6	C,U	0	5
158 Uganda	678	186	28	33	87	90	42	dă	01	4 0-	14			
159 Malawi	873	213	66	89	89	90	+-	10	*	1 12	+4	**	4.7	0.
160 Angola	1,885	126	214	169	47	69	4 520	C 017	C 43		94	н	44	91
161 (1477)	· ·			103	41	03	4,538	6,017	547	532	**	0,9	-149	-573
161 Guinea	541	142	85	72	68	72								
162 Chad	90	191	10	14	87	98	**							
163 Gambia	76	169	70	67	80	79					**	·		
164 Rwanda	175	105	32	32	85	88			**	1				
165 Central African Republic	104	153	29	31	91	89	**	14	"	**		٠		**
166 Mali	225	210	10	20			44			•	*	٠		**
167 Entrea	335	319	15	30	85	90		++	17	14				41
168 Guinea-Bissau			19	**	**	1+	**	1+	**					
	43	307	18	39	76	57	**				61			**
169 Mozambique	1,168	27	364	66	73	91	8,386	7,813	693	481	0.2	0.3	4	7
170 Burundi	149	355	10	24	93	94	15					0,3	_	,
171 Burkina Faso	223	197	16	21	91	0.7				,	**			
172 Ethiopia	1,329	193	18			87		10			14	-		**
173 Niger	373	171	39	22	92	91	11,157	16,566	296	284	44	0.4	5	6
174 Sierra Leone	241	120		39	78	78		44		**	**			
	241	120	62	56	64	86	**	**	**	44	**			
All developing countries	3,742,248 1	310	366	845			1,869,600 T	3 503 490 7		035				
Least developed countries	43,590 T	159	76	81		**		3,502,685 1		825	1.1	1.1	67	-33
Sub-Saharan Africa	254,854 T	173	381	399	,		89 68 7 7	125,062 7		303	- 11	4,	1	33
Arab States	340,359 T	346	688	1 574	**	**	199,164 T	293,499 T	739	687		0.8	78	-60
Fast Asia	1,345,126 T	379	346	1,061		**	138,402 T	313,448 T	888	1,290	3.2		715	275
East Asia (excluding China)	266,216 T	491			**		642,546 T	1,271,864 T	627	1,004	0.4	0.8	3	12
South-East Asia and the Pacific	302,527 T	413	1,211	4,932			49,437 1	175,064 T	1,145	3,376	2.1	2.0	75	87
South Asia			201	615		4+	149 820 T	365 322 T	432	774	1.3	13	48	15
South Asia (excluding India)	591,797 T	367	173	445	**	**	330,497 T	633,224 1	357	490	1.0	1.0	5	-8
Latin America and the Caribbean	157 883 T	376	172	410			88,473 T	182,937 T	372	527	18	1.0	-42	61
Eastern Europe and the CIS	814,298 T	229	990	1,697			3/6,913 T	557,686 T		1,163	1.8	1.7	-24	-35
	1,654,616 1	**	**	4,153		**	1,312,527 7	1,211,670 T		3,047		0.6	7	-16
Industrialized countries	7,941,171 7	155	6,988	9,491	**	**	3,699,046 T			5,388	7.0			
World	13,338,035 T	183	1,568	2,370	**		6,881,172 T	9 207 136 T	1.600		2.9	3.4	31	26
							-looding)	2,201,1301	1,023	1,681	2.0	22	3.6	4.9

a. Estimated real GDP (at 1987 prices) divided by kilograms of oil equivalent of commercial energy use. Source: Columns 1-4; UN 1997a and 1998c; columns 5-6: WRI 1998; columns 7-14: World Bank 1999b.

10	Profile of
10	environmental
	degradation
	uegradation.

environmental degradation	Internal renewable water resources	fresh	nual water irawals	Averag	e annual	Printing and writing paper		CO <sub>2</sub> emissions	· .	
	per capita (cubic metres per year)	As % of water resources	Per capita (cubic metres)	rat defore	te of estation %)	(metric tons per 1,000 people)	Total (millions of metric tons)	Share of world total (%)	Per capita (metric tons)	SO <sub>2</sub> emissions per capita (kilograms)
HDI rank	1998	1987-95 *	1987-95 a	1980-90 b	1990-95 b	1996	1996	1996	1996	1995
High human development	9,714	9.6	997	80	<b>&gt;&gt;</b>	92.4	11,878.7 T	49.7	11.7	49.2
1 Canada	94,373	1.6	1,602		-0.1	101.3	410.0	1.7	13.8	91.2 °
2 Norway	87,691	0.5 d	488 d		-0.1	94.8	67.1	0.3	15.4	8.0 °
3 United States	8,983	19.0	1,839		-0.3	136.8	5,309.7	22.2	19.7	63.2
4 Japan	4,344	16.6	735		0.1	114.9	1,169.6	4.9	9.3	
5 Belgrum	822	107.5	917	44		161.4	106.2	0.4	10.5	25.0 °
6 Sweden	19,858	1.7	341	**	**	115.3	54.2	0.2	6.2	
7 Australia	18,596	4.3	933	**	0.0	91.3	307.1	1.3	17.0	"
8 Netherlands	635	78.1	518		0.0	86.5	155.4	0.6	10.0	44
9 Iceland	606,498	0.1	636	**	0.0	41.7	2.2	(1)	8.1	29.6
10 United Kingdom	1,219	16.6	204	**	-0.5	104.6	557.9	2.3	9.5	40.4
11 France	3,065	21.0	665	**	-1.1	71.1	362.4	1.5	6.2	17.0 [
12 Switzerland	5,802	2.8	173	**	0.0	110.1	44.3	0.2	6.1	4.8
13 Finland	21,334	2.0	440		0.1	240.1	59.3	0.2	11.6	18.8
14 Germany	1,165	48.2	580	**	0.0	85.8	862.6	3.6	10.5	36.8 4
15 Denmark	2,092	10.9	233	**	0.0	115,4	56.7	0.2	10.8	28.7
16 Austria	6,857	4.2	304		0.0	84.2	59.4	0.2	7.3	8.0 41
17 Luxembourg	0,037	10		-			8.3	(.)	20.2	19.5
18 New Zearand	88,859	0.6	589		-0.6	20.4	29.8	0.1	8.3	1313
19 Italy	2,785	35.3	986	.,	-0.1	59.0	403.9	1.7	7.1	26.1 e,1
20 Ireland	13,187	1.7 d	233 á	10	-2.6	55.7	35.0	0.1	9.8	46.4 f
21 Spain	2,775	27.9	781		0.0	51.4	232.9	1,0	5.9	53.3 °
22 Singapore	172	31.7 d	84 d	0.0	0.0	67.9	65.9	0.3	19.5	
23 Israel	289	108.8	407	0.0	0.0	52.0	52.4	0.2	9.3	51.6
24 Hong Kong, China (SAR)	41	14	11		44	127.9	23.1	0.1	3.7	84
25 Brune: Darussalam	48		40	14	40	2.1	5.1	(.)	16.9	84
26 Cyprus						22.6	5.4	(.)	7.1	63.0
27 Greece	4,279	11.2 d	523 d	84	-2.3	24.5	80.7	0.3	7.7	50.2 g
28 Portugal	3,878	19.2	738	64	-0.9	36.9	48.0	0.2	4,9	27.5 °
29 Barbados	3,075	5 m/ 1 lin			11	13.4	0.8	(.)	3.2	44
30 Korea, Rep. of	1,434	41.7	632	-2.0	0.2	58.6	408.7	1.7	9.0	
31 Bahamas	-,					5.6	1.7	(.)	6.0	47
32 Malta	m di	9.6	64	44	49	36.6	1.8	(.)	4.8	"
33 Slovenia	44	64	24	à à	0.0	30.1	13.1	0.1	6.8	88.9
34 Chile	31,570	3,6 <sup>d</sup>	1,625 <sup>d</sup>	0.1	0.4	16.1	48.9	0.2	3.4	94
35 Kuwait		2,690.0	307	-33.8	0.0	14.6	42.7	0.2	25.3	11
					0.0	34.6	126.9	0.5	12.4	105.6
36 Czech Republic 37 Bahrain	5,694	4.7	266	**		13.2	10.6	(,)	18.6	14
38 Antigua and Barbuda	80	00	án	н	00	3.6	0.3	(.)	4.9	**
39 Argentina	19,212	4.0 d	1,043 <sup>d</sup>	0.6	0.3	16.5	130.1	0.5	3.7	9.0
40 Uruguay	18,215	1.3 d	241 d	-0.2	0.0	11.3	5.7	(.)	1.8	49
	10,212					3.0	29.2	0.1	52.3	4.0
41 Qatar 42 Slovakia	C 745		337	14	-0.1	14.8	39.7	0.2	7.4	44.4 °
43 United Arab Emirates	5,745	5.8	954	-46.6	0.0	19.1	82.0	0.3	36.3	**
44 Poland	64 1,278	1,405.3 24.9	321	-40,0	-0.1	19.3	357.4	1.5	9,3	60.6
45 Costa Rica	26,027	1.4 d	780 d	2.8	3.1	6.1	4.7	(.)	1.4	44
Medium human development	6,410	7.5	596	30	Wy.	5.1	10,387.4 T	43.4	2.8	
46 Trinidad and Tobago		2.9 d	148 <sup>d</sup>	1,6	1.6	7.5	22.3	0.1	17.2	14
47 Hungary	3,869 604	113.6	660	1,0	-0.5	23.4	59.6	0.2	6.0	68.3
48 Venezuela	36,830	0.5 d	382 d	1,1	1,1	10.0	144.7	0.6	6.5	**
49 Panama	52,042	0.9 d	755 d	1.9	2.2	8.6	6.7	(.)	2.5	4+
50 Mexico	3,729	21.7	915	-0.4	0.9	9.4	348.7	1.5	3.7	
	2163	2117								

18	Profile of
	environmental
	degradation

environmental degradation	internal renewable water	fresh	nual water			Printing and writing paper		CO <sub>2</sub> emissions		
	resources per capita (cubic metres per year)	As % of water	Per capita (cubic metres)	rat defore	e annual e of estation %)	consumed (metric tons per 1,000 people)	Total (millions of metric tons)	Share of world total (%)	Per capita (metric tons)	SO <sub>2</sub> emissions per capita (kilograms)
HDI rank	1998	1987-95 °	1987-95 *	1980-90 b	1990-95 b	1996	1996	1996	1996	1995
51 Saint Kitts and Nevis	1+					3.9	0,1	(.)	2.5	
52 Grenada				**	h.6 P1	0.8	0.2	(.)	1.8	**
53 Dominica		41	80	M	10	1.2	0.1	(.)	1.1	
54 Estonia	8,946	25.6	2,102	14	-1.0	28.4	16.4	0.1	11.2	•
55 Croatia	13,663	be .	-,	41	0.0	14.4	17.6	0.1	3.9	13.5
56 Malaysia		2.1 d	768 <sup>d</sup>							16712
57 Colombia	21,259			2.1	2.4	25.3	119.3	0.5	5.8	
58 Cuba	28,393	0.5 23.5 <sup>d</sup>	174	0.6	0.5	7.9	65.4	0.3	1.8	
59 Mauritius	3,104 1,915	16.3 <sup>d</sup>	870 <sup>d</sup> 410 <sup>d</sup>	0.2	1.2	1.6	31.2	0.1	2.8	
60 Belarus	5,047	5.8		-1.2	0.0	10.5	1.7	(.)	1.5	24
			294	41	-1.0	0.2	61.8	0.3	6.0	31.5
61 Fiji	34,732	0.1	42	-0.2	0.4	7.5	0.8	(.)	1.0	
62 Lithuania	3,720	31.9	1,185	80	-0.6	6.4	13.9	0.1	3.7	28.8
63 Bulgaria	2,146	77.2	1,574		14	4.2	55.4	0.2	6.5	178.2
64 Suriname	452,489	0.2	1,192	0.1	0.1	2.1	2.1	(,)	4.9	
65 Libyan Arab Jamahiriya	100	766.7	880	-3.2	0.0	0.3	40.6	0.2	7.3	
66 Seychelles	84	44	0.0	**	0.0	3.4	0.2	(.)	2.3	
67 Thailand	1,845	29.0	602	3.1	2.6	16.1	205.7	0.9	3.5	
68 Romania	1,639	70.3	1,139	49	40	5.5	119.5	0.5	5.3	40.1
69 Lebanon	1,315	30.8	444	0.7	8.1	13.2	14.2	0.1	4.6	
70 Samoa (Western)	16	**	ĝя	80	+0	2.2	0.1	(.)	0.8	
71 Russian Federation	29,009	2.7	787							
72 Ecuador	25,791	1.8	581	1.7	0.0 1.6	4.7	1,582.1	6.6	10.7	25.8 <sup>c,h</sup>
73 Macedonia, TFYR	20,101					2.9	24.5	0.1	2.1	+1
74 Latvia	7,029	4.1	261	н	-0.0	5.0	12.7	0.1	5.9	
75 Saint Vincent and the Grenadines	1,020			49	-0.9	5.2	9.3	(.)	3.7	15.1
76 Kazakhstan		40		ů s	91	0.5	0.1	(.)	1.1	
77 Philippines	6,728	33.4	2,281	2.0	-1.9	(.)	174.1	0.7	10.4	
78 Saudi Arabia	4,476	9.1 d	686 d	3.3	3.5	5.2	64.7	0.3	0.9	,
79 Brazil	119	709.1	1,003	0.7	0.8	4.0	268.3	1.1	14.2	,
80 Peru	31,424	0.7	246	0.6	0.5	13.0	273.8	1.1	1.7	
	1,613	15.3	300	0.3	0.3	4.2	26.2	0.1	1.1	
81 Saint Lucia	pu	14	91	64	9.0	7,4	0.2	(.)	1.3	
82 Jamaica	3,269	3.9 d	159 d	7.1	7.5	7.4	10.1	(7)	4.0	
83 Belize	69,565	0.1	109	0.3	0.3	1.4	0.4	(.)	1,6	
84 Paraguay	18,001	0.5	112	2.5	2.6	3.2	3.7	(,)	0.7	**
85 Georgia	10,556	7.0	735	4 in	0.0	(.)	3.0	(,)	0.6	
86 Turkey	3,074	16.1	544	05	0.0	11.2	178.6			7.1 9
87 Armenia	3,069	34.0	1,082	64	-2.7	(.)	3.7	0.7	2.9	
88 Dominican Republic	2,430	14.9	446	-1.8	1.6	4.9	12.9	(.) 0.1	1.0	
89 Oman	393	124.2	656	av	0.0	0.8	15.2	0.1	1.6 6.6	*
90 Sri Lanka	2,341	14.6 d	503 d	1.0	1.1	3.2	7.1	(,)	0.4	٠
91 Ukraine	3,838	17.7	670							
92 Uzbekistan	1,307	261.0	4,100	80	-0.1	0.2	397.9	1.7	7.7	31,8
93 Maldives	u dans			46	-2.6	0.1	95.1	0.4	4.1	>+
94 Jordan	114	144.7	201	0.3	0.0	3.9	0.3	(.)	1.1	**
95 Iran, Islamic Rep. of	1,755	54.6	1,079	-0.3	2.5	7.2	13.8	0.1	2.5	
				1.8	1.8	4.1	267.1	1.1	3.8	
96 Turkmenistan		2,280.0	6,367	03	0.0	(.)	34.3	0.1	8.3	**
97 Kyrgyzstan	10,503	23.4	2,511	èn	0.0	0.7	6.1	(.)	1.4	
98 China	2,231	16.4 d	461 <sup>d</sup>	-0.6	0.1	6.1	3,369.0	14.1	2.8	,,
99 Guyana	281,542	0.6	1,819	9.9	61	1.6	1.0	(.)	1.1	
100 Albania	2,903	2.0 d	94 <sup>d</sup>	44	0.0	4.2	1.9	(.)	0,6	**

18	Profile of
	environmental
	degradation

environmental degradation	internal renewable water	fresh	nuał water Irawals			Printing and writing paper		CO <sub>2</sub> emissions		
HDI rank	resources per capita (cubic metres per year) 1998	As % of	Per capita (cubic metres) 1987-95 a	rat defore	e annual e of station %)	consumed (metric tons per 1,000 people) 1996	Total (millions of metric tons) 1996	Share of world total (%) 1996	Per capita (metric tons) 1996	SO <sub>2</sub> emissions per capita (kilograms) 1995
101 South Africa 102 Tunisia 103 Azerbaijan 104 Moldova, Rep. of 105 Indonesia	1,011 371 1,657 519 12,251	29.7 87.3 123.6 160.2 0.7	359 376 2,235 853 96	0.1 -0.9  0.8	0.2 0.5 0.0 0.0 1.0	17.2 6.1 (.) 1.6 7.2	293.2 16.2 30.1 12.1 245.5	1.2 0.1 0.1 0.1 1.0	6.9 1.8 4.0 2.7	13.6
106 Cape Verde 107 El Salvador 108 Tajıkistan 109 Algena 110 Viet Nam	3,128 10,031 460 4,827	5.3 d 20.4 32.4 7.7	244 <sup>d</sup> 2,438 180 416	2.3  1.2 0.9	3.3 0.0 1.2 1.4	0.3 6.6 (.) 2.9 1.4	0.1 4.1 5.9 94.5 37.7	(.) (.) (.) 0.4 0.2	0.3 0.7 1.0 3.3 10.8	
111 Syrian Arab Republic 112 Bolivia 113 Swaziland 114 Honduras 115 Namibia	456 37,703 2,836 9,015 3,751	205.9 0.4 24.9 <sup>d</sup> 2.8 4.0	1,069 201 1,171 <sup>d</sup> 294 179	2.5 0.8 0.0 2.1 0.3	2.2 1.2 0.0 2.3 0.3	1.0 1.8 2.7	44.4 10.1 0.3 4.0	0.2 (.) (.) (.)	3.1 1.3 0.4 0.7	
116 Vanuatu 117 Guatemala 118 Solomon Islands 119 Mongolia 120 Egypt	10,033 107,194 9,375 43	0.6 d 0.0 2.2 1,967.9	 139 <sup>d</sup> 0 271 921	1.7 0.2 0.0 -1.8	2.0 0.2 0.0 0.0	0.1 3.6 (.) 0.5 2.7	0.1 6.8 0.2 8.9 98.0	(.) (.) (.) (.)	0.4 0.6 0.4 3.5 1.5	11 11 11 10
121 Nicaragua 122 Botswana 123 São Tomé and Principe 124 Gabon 125 Iraq	39,203 1,870  140,171 1,615	0.5 d 3.9  (.) 121.6	368 <sup>d</sup> 84  70 2,368	1.4 0.5  0.6 0.0	2.5 0.5  0.5 0.0	0.1  0.4 4.3	2.9 2.1 0.1 3.7 91.5	(.) (.) (.) (.) 0.4	0.7 1.4 0.6 3.3 4.4	11
126 Morocco 127 Lesotho 128 Myanmar 129 Papua New Guinea 130 Zimbabwe	1,071 2,395 22,719 174,055 1,182	36.2 1.0 0.4 (.) 8.7	433 30 101 28 136	0.3 -14.6 1.2 -0.1 0.7	0.3 0.0 1.4 0.4 0.6	2.3  0.4 0.2 0.2	27.9  7.3 2.4 18.4	0.1  (.) (.) 0.1	1.0  0.2 0.6 1.6	**
131 Equatorial Guinea 132 India 133 Ghana 134 Cameroon 135 Congo	69,767 1,896 1,607 18,711 78,668	(.) 20.5 <sup>d</sup> 1.0 <sup>d</sup> 0.2 (.)	15 612 <sup>d</sup> 35 <sup>d</sup> 38 20	0.4 -1.1 1.3 0.6 0.2	0.5 0.0 1.3 0.6 0.2	2.0 0.3 0.5 0.1	0.1 999.0 4.1 3.5 5.0	(,) 4.2 (,) (,)	0.4 1.1 0.2 0.3 1.9	**
136 Kenya 137 Cambodia 138 Pakistan 139 Comoros	696 8,195 1,678	10.2 0.6 62.7	87 66 1,269	0.4 2.4 3.1	0.3 1.6 2.9	1.5 0.1 1.8 0.7	6.8 0.5 94.5 0.1	(.) (.) 0.4 (.)	0.3 (.) 0.7 0.1	** ** **
Low human development	7,302	1.7	158		00	0.4	176.5 T	0.7	0.3	
140 Lao People's Dem. Rep. 141 Congo, Dem. Rep. of the 142 Sudan 143 Togo 144 Nepal 145 Bhutan	50,392 19,001 1,227 2,594 7,338 49,557	0.4 (.) 50.9 0.8 1.6 (.)	259 10 666 28 154 13	0.7 1.0 1.6 0.9	0.7 0.8 1.4 1.1 0.3	0.1 (.) 0.2 0.2 0.1 (.)	0.3 2.3 3.5 0.8 1.6 0.3	(.) (.) (.) (.) (.)	0.1 (.) 0.1 0.2 0.1 0.2	
146 Nigeria 147 Madagascar 148 Yemen 149 Mauritania 150 Bangladesh	1,815 20,614 243 163 10,940	1.6 4.8 407.5 d 1.7	41 1,579  923 <sup>d</sup> 217	1.6 0.9 0.0 0.0 1.8	0.9 0.8 0.0 0.0 0.9	0.3 0.3 0.1 0.2 1.3	83.5 1.2 17.0 3.0 23.0	0.3 (.) 0.1 (.) 0.1	0.7 0.1 1.1 1.3 0.2	

18 Profile of environmental degradation

environmental degradation	internal renewabie water	fresh	nual water			Printing and writing paper		CO <sub>2</sub> emissions		
	resources per capita (cubic metres per year)	As % of water resources	Per capita (cubic metres)	rat defore	e annual e of estation %)	consumed (metric tons per 1,000 people)	Total (millions of metric tons)	Share of world total (%)	Per capita (metric tons)	SO <sub>2</sub> emissions per capita (kilograms)
HDI rank	1998	1987-95 °	1987-95 ⁴	1980-90 b	1990-95 b	1996	1996	1996	1996	1995
151 Zambia	9,229	2.1	216	0.9	0.8	1.9	2.4	(,)	0.3	
152 Haits	1,460	0.4	7	4.3	3.5	0.3	1.1	(.)	0.2	**
153 Senegal	2,933	5.2	202	0.6	0.7	0.2	3.1	(.)	0.4	**
154 Côte d'Ivoire	5,265	0.9	67	7.7	0.6	0.8	13.1	0.1	0.9	**
155 Benin	1,751	1.4	28	1.4	1.2	0.1	0.7	(.)	0.1	**
156 Tanzania, U. Rep. of	2,485	1,5	40	1.1	1.0	0.5	2.4	(.) ·	0.1	**
157 Dribouti						(.)	0.4			**
158 Uganda	1,829	0.5 d	20 d	0.9	0.0			(.)	0.6	
159 Malawi	1,690	5.3	98	1.2	0.9	0.1	1,0	(.)	(.)	
160 Angoia	15,376	0.3	57		1.6	0.1	0.7	(.)	0.1	*
				0.6	1.0	0.1	5.1	(.)	0.4	
161 Guinea	29,454	0.3	142	1.1	1.1	(.)	1,1	(.)	0.2	
162 Chad	2,176	1.2	34	0.7	8.0	(.)	9.1	(.)	(,)	
163 Gambia	2,513	0.7 d	30 <sup>4</sup>	1.1	0.9	0.1	0.2	(.)	0.2	,
164 Rwanda	965	12.2	135	-1.7	0.2	0.1	0.5	(.)	0.1	,
165 Central African Republic	40,413	0.1	26	0.4	0.4	0.1	0.2	(.)	0.1	
166 Malı	5,071	2.3	162	0.8	1.0	0.1	0.5	(.)	(,)	
167 Eritrea	789	nk	54	86	0.0	**	0.1	(.)	11.2	
168 Guinea-Bissau	14,109	0.1	17	-0.8	0.4	(.)	0.2	(.)	0.2	,
169 Mozambique	5,350	0.6	40	0.7	0.7	(,)	1.0	(,)	0.1	*1
170 Burundi	546	2.8	20	-2.2	0.4	0.1	0.2	(.)	(.)	**
171 Burkina Faso	1,535	2.2	39	0.7	0.7	(.)	1.0	(.)	0.1	
172 Ethiopia	1,771	2.0	51	10	0.5	0.1	3.4			,
173 Niger	346	14.3	69	0.0	0.0	0.1	1.1	(.)	(.)	*
174 Sierra Leone	34,957	0.2	98	2.8	3.0	0.4	0.4	(.)	0.1	-4
							0.4		0.1	,
All developing countries	6,055	6.2	492		**	5.5	8,716 2 T	36,4	2.1	
Least developed countries Sub-Saharan Africa	9,731	1.4	175		**	0.4	85.8 T	0.4	0.2	
	6,363	1.5	125			1.6	468.8 T	2.0	09	
Arab States	554	129.2	926	**	**	29	909.8 T	3.8	3.7	*1
East Asia	2,217	16.9	466		.,	8.5	3,809.8 T	15.9	3.0	
East Asia (excluding China)	1,855	31.0	613		**	64.1	440.7 T	1.8	8.2	,
South-East Asia and the Pacific	11,860	2.0	317	.,		7.3	755 S T	3.2	3.1	
South Asia (overland to 4'-)	2,860	16.4	658			2.0	1,392 9 T	58	1.0	
South Asia (excluding India)	5,338	12.6	777			2.0	393.8 T	1.6	10	
Latin America and the Caribbean	21,504	1.9	507	**		9.8	1,195 4 T	5.0	2.5	PT
astern Europe and the CIS	13,179	8.2	1,122		*1	6.3	3,249 6 1	13.6	8.2	40.3
ndustrialized countries Vorld	9,817	10.3	1,058	**	**	104.6	10,476.9 T	43.8	125	47.5
VOIIG	6,918	7.3	626 '	44		20.1	22,442.6 T	93.8	4.1	4-

a. Data refer to the most recent year available during the period specified in the column heading.

b. A positive number indicates a loss of forest area, a negative number a gain.

c. Data refer to 1994.

d. Data refer to an earlier year or period than that specified in the column heading.

e. Data refer to 1993.

f. Provisional.

g. Data refer to 1990.

h. Data refer to only part of the country.

i. WRJ 1998

p. The world total is less than 100% because of the omission of data for countries not reported on and because the global total used in this calculation includes other emissions not included in national totals, such as emissions from bunker fuels and oxidation of non-fuel hydrocarbon products.

Source Columns 1-5. WRI 1998, column 6 L NESCO 1998a, columns 7-9: calculated on the basis of data from CDIAC 1999a and 1999b, column 10. UNECE 1999a.

	Major protected	protected fuel areas produced		Municipal s waste	Popula serv		Waste recycling		
	areas (as % of national	(metric tons	waste produced	generated (kilograms	By municipal waste	By public sanitation	apparent co	% of onsumption)	
HDI rank	territory) a	of heavy metal) <sup>b</sup> 1996	(1,000 metric tons) 1991-94 5 d	per person) 1991-97 <sup>d</sup>	services (%) 1992-95 d	<b>services</b> (%) 1992-95 d	Paper and cardboard 1992-95	<b>Glass</b> 1992-95	
High human development	12.5	8,044 T	255,385 T	536	99	84	43	42	
1 Canada	9.5	1,690	5,896	630	100	91	33	17	
2 Norway	24.2	**	500	590	98	73	41	75	
3 United States	18.9	2,300	213,620	720	100	**	35	23	
4 Japan	6.8	852	**	400	100	**	51	56	
5 Belg-um	2.6	123	776	480	100	Pa .	12	67	
6 Sweden	4.7	235		440	100	95	54	61	
7 Australia	8.7	**	426	690 °	47	14	50 °	36	
8 Netherlands	11.5	14	1,520	570	100	98	77	80	
9 Iceland	9.4	**	6	570	99	90	30 e	75	
10 United Kingdom	19.8	781	1,844	480	100	97	35	27	
11 France	11.6	1,264	7,000 °	590	100	81	38	50	
12 Switzerland	17.3	64	854	600	99	94	61	85	
13 Finland	8.3	68	559	410	75	77	57	50	
14 Germany	26.4	450	9,100	400	100	92	67	75	
15 Denmark	31.8		250	540	100	**	44	63	
16 Austria	28.2	**	550	510	99	76	65	76	
17 Luxembourg	13.9	**	180	460	100	88			
18 New Zealand	23.4		110	350	.,		19		
19 Italy	7.1	**	2,708	470			29	53	
20 Ireland	0.8	19	248	430	D.	68	12	39	
21 Spain	8.3	158	1,708 °	370		62	52	32	
23 Israel	14.9 (9	",	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**				
27 Greece	2.5		450	340	100	51	19	20	
28 Portugal	6.5		14	350	89	55	37	42	
32 Malta	**	49	.,		**	**	**	**	
33 Slovenia	5.7 (9								
36 Czech Republic	15.5	 45	1,867	310	<del></del> 85	73	64	14	
42 Slovakia	21.3 f	.,	1,347			52	14	"	
44 Poland	9.3	**	3,866	320	**		,-	,,	
Medium human development	3.2								
47 Hungary	6.8	55	3,537	500	85	43	40	*1	
54 Estonia	12.0 <sup>f, g</sup>							"	
55 Croatia	6.7 (9	43	9.6	**		*1	**	0	
60 Belarus	4.2 5.9	43	**	**		**	**	41	
62 Lithuania	10.0 <sup>f, g</sup>		**	14	44	**	**	41	
63 Bulgaria	4.4 5.9								
68 Romania	4.4 (9 4.7 f.9		**	**	•		**		
71 Russian Federation	3.1 19	**	**	**	**	**		.,	
73 Macedonia, TFYR	7.1 (9	**	**	**	**		**		
74 Latvia	12.5 (9	49			**	25	**	14	
76 Kazakhstan		**							
85 Georgia	2.7 (,9	**	**		"	**	**	+1	
87 Armenia	2.8 5.9	**	**	**	"	••	"	**	
91 Ukraine	7.6 <sup>f, g</sup>		*r	**		**		**	
92 Uzbekistan	2.1 <sup>t.g</sup>	47	**	*1			**	"	
		**	м	**					
96 Turkmenistan	4.2 f.g		**	9.4			**	**	
97 Kyrgyzstan	3.6 59	**					**	*1	
100 Albania 103 Azerbaijan	2.8 (9	**		**	**	**			
104 Moldova, Rep. of	5.5 <sup>f, g</sup> 1.2 <sup>f, g</sup>	**	**	14	**	**		**	
108 Tajikistan	4.2 59	**	14					**	
- vojikisidii	4.2 "9		44	1-	**				

### 19 Managing the environment

HDI rank	Major protected	Spent fuel	Hazardous	Municipal waste generated (kilograms	Population served			ecycling
	areas (as % of	produced (metric tons	waste produced		By municipal waste	By public sanitation	(as % of apparent consumption)	
	national territory) a 1998	of heavy metal) <sup>b</sup> 1996	(1,000 metric tons) 1991-94 <sup>c, d</sup>	per person) 1991-97 <sup>d</sup>	services (%) 1992-95 d	services (%) 1992-95 <sup>d</sup>	Paper and cardboard 1992-954	Glass 1992-95 d
All developing countries		**	••	61	**	**	,	
Eastern Europe and the CiS	3.3 f. g	**	*1		**	**		
Industrialized countries	12.5	7,999 T	248,305 T	549	100	84		
World		**	**		6.0	**	17	>1

Note: This table includes industrialized countries and Eastern Europe and the CIS only.

- a. National classifications may differ, includes only areas greater than 10 square kilometres except for islands. World Conservation Union (IUCN) management categories I-VI, except where otherwise noted
- b. Spent fuel arising in nuclear power plants.
- c. Waste, generated mainly by industrial activities, that may lead to toxic contamination of soil, water and air if not properly managed.
- d. Data refer to the most recent year available during the period specified in the column heading.
- e. Data refer to an earlier year or period than that specified in the column heading.
- f. Data refer to 1996.
- g. IUCN categories I-V.

Source: Column 1: OECD 1997c and forthcoming and WRI 1998; columns 2 and 4: OECD forthcoming; columns 3 and 5-8: OECD 1997c.

		er capita		er capita of protein Change		er capita of fat Change	Food production per capita index (1989-91	Food imports (as % of merchandise	Food aid in cereals (thousands of metric	Food consumption (as % of total household	
IDI rank	supply o 1970	f calories 1996	(grams) (%) 1996 1970-96		(grams) (%) 1996 1970-96		= 100) 1997	imports) 1997	tons) 1994-95 <sup>b</sup>	consumption) 1980-85°	
High human development	3,000	3,347	102.7	13.0	127.6	32.3	106	8	**		
1 Canada	2,942	3,056	98.2	3.4	120.2	3.6	113	6	**	**	
2 Norway	2,944	3,350	108.9	25.2	136.8	137.1	100	7	pe	48	
3 United States	2,933	3,642	111.4	16.0	140.5	19.1	117	5	**	14	
4 Japan	2,527	2,905	96.7	16.5	82.5	50.0	96	15	an.	H	
5 Belgium	on	3,543	102.0	8.5	158.3	19.9	1+	1+	>*	ы	
6 Sweden	2,816	3,160	100.8	14.5	131,8	12.6	97	7	**	**	
7 Australia	3,111	3,001	103.5	0.5	112.2	0.2	129	5	**		
8 Netherlands	2,998	3,259	103.7	48.1	141.0	6.8	108	11	14	44	
9 Iceland	2,818	3,104	111.2	-8.1	116.4	0.3	93	10	Pa	19	
10 United Kingdom	3,242	3,237	94.5	2.7	140.2	-0.6	99	9	**		
			114.5	10.1	164.2	29.3	105	10		*)	
11 France	3,263	3,551 3,280	88.5	-1.7	143.3	-4.5	96	6	49	11	
12 Switzerland	3,464 3,074	2,916	95.1	6.9	125.5	-0.4	94	7		**	
13 Finland		3,330	95.1	8.1	144.9	12,3	93	9	44		
14 Germany	3,135 3,134	3,808	106.4	36.4	181.2	9.8	102	13		14	
15 Denmark	· ·							6			
16 Austria	3,204	3,343	96.3	7.0	157.6	26.1	98		**	47	
17 Luxembourg	8.0				431.0		12.6		**	4.6	
18 New Zealand	3,006	3,405	104.5	7.7	131.0	5.7	124 97	11	14	3-0	
19 Italy	3,395	3,504	109.2	12.6	145.1	29.6 3.3	108	8	14	**	
20 Ireland	3,424	3,636	113.4	7.0	130.2				t+		
21 Spain	2,723	3,295	106.9	27.3	142.2	51.3	104	12	26	44	
22 Singapore	44	11	**	**	44	84	35	4	14	11	
23 Israel	2,986	3,272	107.5	7.5	115.2	12.9	116	7	19	U	
24 Hong Kong, China (SAR)	2,743	3,282	99.7	17.3	136.5	40.3	58	6	10	1/	
25 Brune: Darussalam	2,331	2,886	85.5	58.3	89.0	107.0	100	+1	**	**	
26 Cyprus	3,102	3,341	105.7	21.5	135.3	12.6	107	27	91	н	
27 Greece	3,104	3,575	113.4	13.4	150.3	33.1	96	15	4.6	**	
28 Portugal	2,850	3,658	112.0	36.6	130.9	67.8	102	13	14	14	
29 Barbados	2,805	3,207	87.9	11.3	104.0	21.0	109	18	1.0	25	
30 Korea, Rep. of	2,793	3,336	88.2	22.5	81.5	226.0	123	6	40	35	
			74.7	-4,2	80.2	-6.1	123	D	10	41	
31 Bahamas 32 Malta	2,575 3,102	2,443 3,417	109.8	15.6	116.1	18.5	136	11	14	6.0	
33 Slovenia		3,117	102.3		99.7	66	103	7	45	en.	
34 Chile	2,619	2,810	78.9	14.3	82.0	39.1	131	7	2	29	
35 Kuwait	2,013	3,075	98.3	31.1	97.1	38.3	157	16	49	10	
	46				114.2	##	81	7	**	**	
36 Czech Republic	114	3,177	94.7	nê	11-7-44	**	117	12	47	14	
37 Bahrain	2.400	7 765	86.7	35.5	90.0	8.4	95	44	40	**	
38 Antigua and Barbuda	2,489	2,365	96.5	-5.4	112.5	2.7	127	5	do	35	
39 Argentina	3,340	3,136	89.0	-2.2	105.2	-6.3	136	10	19	31	
40 Uruguay	3,041	2,830	03.0				137	99	44	+4	
41 Qatar	shift	Av	77.0	510	101 3	11	73	8	40	4+	
42 Slovakia	94	3,030	77.9	м	101.3 108.3	40.7	190	,,	**	**	
43 United Arab Emirates	3,196	3,366	104.8	-4.5	110.8	5.5	80	8		**	
44 Poland	3,416	3,344	99.3	28.1	77.5	36.4	130	13	2	33	
45 Costa Rica	2,391	2,822	74.3	33.7	60.9	99.7	130	9	4,190 T	19	
Medium human development	2,123	2,695	69.6	-1.4	74.6	20.8	111	10		19	
46 Trinidad and Tobago	2,464	2,751	63.1 88.8	-3.5	142.0	22.4	B1	5	46	41	
47 Hungary	3,311	3,402	61.3	3.9	65.8	24.0	121	16	411	23	
48 Venezuela 49 Panama	2 236	2,398	64.2	8.8	71.1	39.1	103	10	**	38	
TOTIONA CE	2,236	2,556	U-7-4			47.7	120	6	44	35 ₫.€	

20	<b>Food security</b>	
	and nutrition	

				er capita of protein		er capita y of fat	production per capita index	Food imports (as % of	Food aid in Cereals (thousands of	Food consumption (as % of total
HDI rank		of calories	Total a (grams) 1996	Change (%) 1970-96	Total a (grams) 1996	Change (%) 1970-96	(1989-91 = 100) 1997	merchandise imports) 1997		nousehold consumption) 1980-85
51 Saint Kitts and Nevis	1,762	2,240	62.8	57.0	77.2	40.4	127	19		
52 Grenada	2,185	2,731	71.4	21.0	93.9	40.3	96	26		
53 Dominica	2,012	3,093	82.9	65.8	90.7	92.4	80	28	7	
54 Estonia	84	3,004	101.3	84	105.6	40	48	16	·	
55 Croatia	An	2,458	64.7	90	69.3	49-	59	10	0.0	10
56 Malaysia	2,518	2,899	74.4	45.9	78.7	40.9	127	5	(,)	23 d
57 Colombia	2,042	2,800	66.6	38.8	71.9	71.7	111	11	15	29
58 Cuba	2,619	2,357	52.1	-24.5	45.4	-34.0	64		3	
59 Mauritius	2,322	2,952	77.5	55.0	82.1	64.2	109	15	w)	24
60 Belarus	3,091	3,101	91.0	99	90.4		59		57	
61 Fiji	2,380	3,038	73.3	35.7				***	-	
62 Lithuania	,	2,805	93.3		112.5 65.0	78.8	108 74	41		
63 Bulgaria	3,451	2,756	81.0	-15.6	91.9	8.1	59	11	84	
64 Suriname	2,177	2,578	61.0	8.9	49.8	13.4	86	84	17	
65 Libyan Arab Jamahiriya	2,439	3,132	71.8	19.7	112.6	50.1	101	40	17	
								84		
66 Seychelles 67 Thailand	1,826	2,424	74.5	52.0	72.1	100.7	141	20	41	+1
68 Romania	2,148	2,334	52.2	2.4	43.9	51.2	107	S	3	30
69 Lebanon	3,105	2,943	91.1	1.2	81.8	12.1	105	6	10.10	
70 Samoa (Western)	2,330	3,279	82.6	40.0	107.4	67.6	119	810	7	
	01	pro.	48	du	No.	81	94	-	84	
71 Russian Federation	**	2,704	85.9	**	74.1	14	71	19	10	
72 Ecuador	2,175	2,592	55.2	8.2	99.5	99.0	137	9	32	30
73 Macedonia, TFYR	99	2,336	63.6	**	71.1	94	96	8-8	dh	01
74 Latvia	1,986	2,861	91.1	110	83.1	9%	45	13		
75 Saint Vincent and the Grenadines	2,295	2,434	60.3	11.7	65.4	8.7	Bi			
76 Kazakhstan	8-6	3,007	96.8	74	58.8		72			
77 Philippines	1,670	2,356	54.6	24.1	47.8	44.4	123	8	44	51
78 Saudi Arabia	1,872	2,735	77.9	62.3	74.4	125.4	90	18		
79 Brazil	2,398	2,938	74.1	21.5	81.5	73.2	128	9	33	35
80 Peru	2,207	2,310	61.1	3.6	48.4	27.5	139	14	348	35
81 Saint Lucia	84	2,822	86.4	66.2						30
82 Jamaica	2,483	2,575	61.7	-7,9	75.5	30.6	75	26	3	**
83 Belize	2,265	2,862	63.5	9.5	71.4	16.7	119	15	46	36
84 Paraguay	2,591	2,485	74.8	2.5	74.0 75.7	17.3	148	20	77	20
85 Georgia	848	2,184	63.8	11 H	38.1	23.9	119	21	1	30
86 Turkey	2,991					00	73	41	388	14
87 Armenia		3,568 2,147	100.9	12.1	100.4	35.3	105	5	20	40
88 Dominican Republic	1,988		60.0	15.5	50.7	ы	84	69	356	
89 Oman		2,316	51.3	16.6	74.1	51.5	113	0.5	2	46
90 Sri Lanka	2,229	2,263	48.8	10.0	40.6		101	17	4.0	+4
91 Ukraine	7			10.9	48.4	-1.3	115	\$10	342	43
92 Uzbekistan	14	2,753	80.3	10	70.2	es	68	**	4+	
93 Maldives	1.470	2,550	76.0	64	63.7	80	96	00	11	
94 Jordan	1,428	2,495	85.1	57.6	49.0	32.3	113	48	3	
95 Iran, Islamic Rep. of	2,415	2,681	69.2	4.8	79.4	32.3	151	49	111	35
· ·	1,994	2,824	74.5	35.5	65.1	51.6	136	44	91	37
96 Turkmenistan	άυ	2,563	71.5	-	77.5	91	99		50	
97 Kyrgyzstan	64	2,489	82.0	91	47.7	92	124	21	19	41
98 China	2,000	2,844	76.0	58.3	65.9	186.3	163	5		61 d =
99 Guyana	2,224	2,392	63.5	11.4	46.4	-5.1	185		30	
100 Albania	2,434	2,523	88.8	26.9	77.9	49.8		27	34	**

Food

20	Food	security
		utrition

				er capita of protein		er capita y of fat	Food production per capita index	Food imports (as % of	Food aid in cereals (thousands of	Food consumption (as % of total
Of rank	Daily pe supply of 1970	r capita calories	Total * (grams) 1996	Change (%) 1970-96	Total a (grams) 1996	Change • (%) 1970-96	(1989-91 = 100) 1997	merchandise imports) 1997	metric tons) 1994-95 <sup>b</sup>	household consumption) 1980-85°
101 South Africa	2,807	2,933	73.3	-0.9	79.5	15.6	100	6	611	34
102 Tunisia	2,221	3,250	87.6	43.6	84.9	49.2	105	11	22	37
103 Azerbaijan	anger-o- t	2,139	62.6		40.5	41	58	44	379	Fa .
104 Moldova, Rep. of	20	2,562	66.8	44	53.9	99	57	84	58	80
105 Indonesia	1,859	2,930	67.8	73.8	58.9	103.5	124	9	15	48
	1,475	3,135	63.1	61.8	108.6	229.2	96	arq	65	14
106 Cape Verde			62.8	33.6	53.4	40.0	112	17	7	33
107 El Salvador	1,827	2,515			40.1		68		97	41
108 Tajikistan	4.700	2,129	58.5	∞ 70.9	71.0	97.7	108	32	23	40
109 Algeria	1,798	3,020	80.6	70.8		59.5	135		64	
110 Viet Nam	2,122	2,502	57.9	13.5	35.1	39.3		al .		At
111 Syrian Arab Republic	2,317	3,339	86.7	35.5	92.1	50.8	133	4.0	59	
112 Bolivia	2,000	2,170	56.4	12.8	50.0	16.3	134	9	175	33 q
113 Swaziland	2,346	2,529	61.7	-5.1	42.7	-0.4	93	84	1	44
114 Honduras	2,177	2,368	55.4	0.7	60.1	46.7	110	18	73	39
115 Namibia	2,149	2,168	59.0	15.7	36,6	-16.3	126	+0		**
		2,624	55.6	-17.0	96.7	7,3	103	40	29	10
116 Vanuatu	2,412		55.6	-0.7	42.0	10.6	118	13	144	36
117 Guatemala	2,100	2,191	42.9	-23.4	39.3	-10.9	107	16	44	0.0
118 Solomon Islands	2,150	2,103		-13.8	76.7	-9.4	82	14	12	
119 Mongolia	2,279	2,098	70.7	37.3	57.5	22.5	133	26	179	49
120 Egypt	2,352	3,289	87.9	27.3	2713					
121 Nicaragua	2,411	2,328	51.5	-28.5	47.2	2.4	128	14	33	25
122 Botswana	2,101	2,272	72.3	-4.9	57,3	30.1	102	an .	7	25
123 São Tomé and Principe	98	2,156	43.6	**	69.9	6.3	122	- 11	б	. 6
124 Gabon	2,118	2,517	69.8	14.4	49.7	27.1	107	19		*
125 Iraq	2,254	2,252	45.2	-25.9	86.3	100.2	90	н	68	
	2,404	3,244	85.8	32.0	65.1	51.6	95	17	13	38
126 Morocco	,	2,209	62.2	2.0	32.9	36.7	101	44	15	nh.
127 Lesotho	1.007	2,752	71.8	38.1	42.3	27.8	131	9.6	5	14
128 Myanmar	1,997		47.5	18.8	47.8	45.2	107	44	at	4π
129 Papua New Guinea	1,920	2,253 2,083	49.9	-19.5	53.5	4.8	106	7	4	40
130 Zimbabwe	2,222	2,000	75.5	1 200			98		3	4.5
131 Equatorial Guinea	**	h.p.	AD	44	44.0	47.7		5	264	52
132 India	2,078	2,415	58.6	14.9	44.2	47.3	119		101	50 d
133 Ghana	2,121	2,560	49.4	-5.0	34.5	-18.3	148	14	2	24
134 Cameroon	2,280	2,175	51.0	-16.4	45.5	-2.8	119	14	12	37
135 Congo	1,996	2,107	40.8	13.3	56.2	30.4	116	p4		
	2,180	1,971	51.5	-19.5	47.4	39.1	105	17	102	38
136 Kenya	2,059	1,974	45.3	-5.6	32.6	72.1	126	**	64	**
137 Cambodia 138 Pakistan	2,198	2,408	59.9	10.9	65.6	92.9	134	19	103	37
139 Comoros	1,848	1,824	42.1	20.3	41.1	2.8	118	41	10	**
			51.0	-4.4	38.7	22.5	117	**	3,459 T	.,
Low human development	2,147	2,145				5.1	113	86	10	46
140 Lao People's Dem. Rep.	2,154	2,143	51.6	-7.9	24.1 29.6	-13.1	104	40	83	e4
141 Congo, Dem. Rep. of the	2,158	1,815	29.7	-19.7			146	17	132	60 d
142 Sudan	2,167	2,391	73.5	20.5	72.5	24.9	138	44	8	14
143 Togo	2,261	2,155	52.7	3,3	42.3	35.1	116	14	21	57
144 Nepal	1,933	2,339	60.0	-31.0	35.1		107		4	
145 Bhutan	ed	**	8-6	**	н	40		6-6	4	
	2,254	2,609	56.3	12.6	66.3	24.9	136	10		48
146 Nigeria		2,001	45.7	-25.1	31.3	-5.0	107	15	26	59
147 Madagascar	2,406	2,001	54.3	6.5	38.2	31.8	121	**	41	\$9
148 Yemen 149 Mauritania	1,763 1,868	2,653	78.3	5.8	64.1	23.3	105	64	22	èt
		/ [13.7]	1 22	m- 6-m-			111	17	888	59

### 20 Food security and nutrition

		•.		er capita of protein		er capita y of fat	Food production per capita index	Food imports (as % of	Food aid in cereals (thousands of	food consumption (as % of total
		er capita of calories	Total * (grams)	Change (%)	Total a (grams)	Change (%)	(1989-91 = 100)	merchandise imports)	metric tons)	household
HDI rank	1970	1996	1996	1970-96	1996	1970-96	1997	1997	1994 95 1	1981 85
151 Zambia	2,140	1,939	51.1	-20.2	28.8	-29.9	94	64	11	36
152 Haiti	70	1,855	41.1	84	31.7	40	92	65	117	.,
153 Senegal	2,546	2,394	67.6	4.0	67.2	-0.1	112	44	16	49
154 Côte d'Ivoire	2,428	2,421	51.0	-3.8	42.9		115	17	56	39
155 Benin	1,964	2,415	57.3	19.4	42.9	be .	127		15	37
156 Tanzania, U. Rep. of	1,749	2,028	50.8	-40.9	30.6	13.5	94		118	64
157 Djibouti	1,842	1,920	39.0	-7.1	53.9	46.1	83	**	23	
158 Uganda	2,294	2,110	46.1	-19.1	28.8	-20.1	110	40	62	P1
159 Malawi	2,340	2,097	55.9	-24.5	28.9	-35.8	100	8.0		30
160 Angola	2,071	1,983	43.3	-5.9	39.7	13.7	133	**	204	30
161 Guinea	- 2,212	2,099	44.0	-8.3	47,2	-15.6	133	-		
162 Chad	2,183	1,972	56.7	-11.4	55.1	14.7		60	29	
163 Gambia	2,108	2,332	46.8	-16.4			119	**	14	
164 Rwanda	,	2,142	47.5		56.8	9.0	84	10	2	0 1
165 Central African Republic	2,378	1,938	44.7	27.7	25.1 63.9	12.0	81	40	269	29
166 Mali	2.095	2,027				13.8	124	12	1	91
167 Eritrea	,		60.8	3.1	42.3	10	127	**	17	57
168 Guinea-Bissau	1.000	1,585	49.3	84	20.5	88	107		140	24
169 Mozambique	1,989	2,381	47.7	10.9	57.3	-4.2	112	10	2	
170 Burundi	1,886	1,799	34.5	-1.4	32.5	12.2	133	22	320	
	2,094	1,708	54.2	-25.8	11.9	-20.3	96	4=	48	81
171 Burkina Faso	1,762	2,137	63.5	17.6	48.5	61.3	123	64	19	01
172 Ethiopia	11	1,845	58.6	10	22.3	24	**	5.0	720	49
173 Niger	1,992	2,116	62.2	11.1	31.5	14	121	tes .	32	
174 Sierra Leone	2,419	2,002	43.7	-5.0	55.5	-13.8	97	10	30	56
All developing countries	2,129	2,678	66.4	30.1	57.7	92.9	177			
Least developed countries	2,090	2.095	514	3.3	33.3		132		6,203 1	
Sub-Saharan Africa	2,226	2,205	52.7	-5.7	44.8	24.3	115	•	3,558 T	
Arab States	2,206	2,907	77.4	27.2		9.5	116		7,592 T	
East Asia	2,033	2,862	76.5	56.7	70 2	51.1	120		636 T	
East Asia (excluding China)	2,770	3,273	88.7	20.5	668	186 7	161		**	
South-East Asia and the Pacific	1,957	2,659	623	41,7	87 7	195 6	113			
South Asia	2.094	2,402	58.2		50.3	706	123	**	205 T	
South Asia (excluding india)	2,144	2,369	57.0	14.7	45.5	51.7	120	**	1,625 T	
Latin America and the Caribbean	2,491	2,303		13.6	48.8	63.7	125		1,361 T	
Eastern Europe and the CIS	2,731	2,800	72.4	14.8	778	48.9	122	**	1,134 T	
Industrialized countries	2,986	3,377	85.0	**	78.2		76	,	**	
World	2,336	2,751	104.8	14.0	133.1	24.6	106		**	
	2,230	4/31	73.5	26.5	70.4	79.0	124	44		.,

a. Amount available for human consumption. Per capita supply represents the average supply available for the population as a whole and does not necessarily indicate what is actually consumed by individuals b. The time reference for food aid is the crop year, July to June

c. Data refer to the most recent year available during the period specified in the column heading.

d. Data refer to a year or period other than that specified in the column heading.

e. Includes beverages and tobacco.

Source. Column 1: FAO 1997; column 2 FAO 1998; columns 3 and 5 FAO 1999; columns 4 and 6: calculated on the basis of data from FAO 1999 columns 7-9 World Bank 1999b; column 10 World Bank 1993

HDI rank	Unemployed people (thousands) 1997 ·	Total unemploy- ment rate (%) 1997	Incidence of unemplo (as % of total of Female 1997	yment*	Discouraged workers (as % of total labour force) 1993	Involuntary part-time workers (as % of total labour force) 1993	Unemployment benefits expenditure (as % of total government expenditure)
High human development	32,495 T	7.8	26.0	29.2	1.2	3.6	2.0
1 Canada	1,414	9.3	10.2	14.5	0.9	5.5	8.1
2 Norway	93	4.1	11.1	14.0	1.2	PE	2.2
3 United States	6,739	5.0	8.0	9.4	0.9	5.0	1.5
4 Japan	2,300	3.5	11.8	28.8	2.2	1.9	0.7
5 Belgium	375	9.0	61.5	59.4	1.5	3.8	5.8
		9.0	26.9	31.8	2.0	6.2	0.8
6 Sweden	367 b	8.0 8.5	27.5	33.1	1.6	6.9	4,0
7 Australia	791	5.6	48.5	49.9	0.6	5.6	4.5
8 Netherlands	422 6	3.8	12.0	20.0	"	10	ы.
9 Iceland		7.1	27.8	44.9	0.6	3.2	1.7
10 United Kingdom	2,034					4.8	3.2
11 France	3,192	12.4	43.3	39.1	0.2		0.4
12 Switzerland	162	4.2	32.8	25.5 33.9	1.5	2.9	3.6
13 Finland	367	14.5	28.2		F , JF	1.5	3.0
14 Germany	4,308	9.8	27.9	26.3	1.6	4.8	5,5
15 Denmark	174	5.4			710		1.8
16 Austria	165	5.2	28.4	28.9	•	*1	
17 Luxembourg	6 b	61	H		1.0	6.3	**
18 New Zealand	121	7.2	16.1	22.2	2.6	2.3	10
19 Italy	2,805	12.5	66.2	66.5	0.5	3,3	6.3
20 Ireland	159	10.5	46.9	63.3			7.0
21 Spain	3,357	20.9	60.4	49.9	0.2	1.0	
23 Israel	170	7.7 °	**	**	20 20	3.1	
27 Greece	440	9.8	62.2	45.8	0.3	1.8	14
28 Portugal	**	6.9	57.7	53.4	0,1	1,0	**
32 Malta	7 6	5.0 b, c	-		**	•	
33 Slovenia	69	7.1 5	88	**	**		. /
36 Czech Republic	242	4.7	29.9	31.3	**	**	(
42 Slovakia	287	11.6 <	ně	**	+1	**	
44 Poland	1,923	11.5	41.9	33.5	7+	10	"
	12,399 T	7.9	To a Market		49	61	
Medium human development			49.2	52.6	0	**	
47 Hungary	349	8.7		32.0	14	41	PT
54 Estonia	16 d	10.0 5 8	46	ar	40	p/L	· ·
55 Croatia	278 b	2.7 °	84 88	61	11	10	11
60 Belarus	126 256	14.1 °	mb.	41	w1	pt	44
62 Lithuania					áÞ.	49	Ird
63 Bulgaria	505 b	13.7 <sup>&amp; c</sup>	01	a-b 	14	41	19
68 Romania	706	6.0 ° 9.3 °°	PE	45	14	11	04
71 Russian Federation	6,788 <sup>d</sup>		99	64	60	19	3.0
73 Macedonia, TFYR	253 *	14.4 5	-	**	84	**	as
74 Latvia	171				90	ah.	**
76 Kazakhstan	282 b, d	4.1 a.c.d	44	41	**	ef:	89
85 Georgia	40	14	49	.,	+4	tr	19
87 Armenia		**	46	**	66	14	17
91 Ukraine	2,330	8.9 ° 0.4 ° <sup>‡</sup>	69	B4	99	40	11
92 Uzbekistan	31 !	0.4 "	44				**
96 Turkmenistan	**	**	à9	**	**	+ c	91
97 Kyrgyzstan	55 b		ps	40	âd		91
100 Albania	140 9	9.1 58	42	44	ân .	**	E4
103 Azerbaijan	38 b	1.3 <sup>ls, c</sup>	94	0.0	ak		16
104 Moldova, Rep. of	23 b, d	141	**	0.0	**		14
108 Tajikistan	51 b	2.7 b, c		**	**		

#### 21 Job security

	Unemployed people	Total unemploy- ment rate	Incidence or unempto (as % of total u	-	Discouraged workers (as % of total	Involuntary part-time workers (as % of total	Unemployment benefits expenditure (as % c' tctal
HD! rank	(thousands) 1997	(%) 1997	Female 1997	<b>Male</b> 1997	labour force)	abour force)	government experiature) 1991
All developing countries Eastern Europe and the CIS Industrialized countries	14,920 T	8.2	**				1091
World	29,974 T	7.7	25.0	28.9		••	

Note: This table includes industrialized countries and Eastern Europe and the CIS only.

- a. Data refer to unemployment lasting 12 months or longer.
- b. Data refer to registered unemployment.
- c. ILO, Yearbook of Labour Statistics 1998.
- d. Date refer to 1996.
- e. Includes only those applying for work.
- f. Data refer to 1995.
- g. Data refer to 1991.

Source. Column 1 ILO, Yearbook of Labour Statistics 1998, column 2 OECD 1998b and ILO, Yearbook of Labour Statistics 1998, columns 3 and 4 OECD 1998b. columns 5 and 6 OECD 1997b. columns

216

		ctions for r single house		tions for use or senate	Voter turnout	Political parties represented		
HDI rank	Date of latest elections	Members elected (E) or appointed (A)	Date of latest elections	Members elected (E) or appointed (A)	at latest elections (%) a	In lower or single house	In upper house or senate	
High human development	, ,		The state of the state of		· was	>	******	
1 Canada	06 1997	Ε	1994 b	A	69	5 °	2 c	
2 Norway	09 1997	E	60	ap	78	7 c	89	
3 United States	11 1998	E	11 1998	E	36	2 c	2	
4 Japan	10 1996	E	07 1998	Ε	59	7 °	9 °	
5 Belgium	05 1995	E	05 1995	E/A	91	11	10	
	09 1998	E			81	7	61	
6 Sweden	10 1998	£	10 1998	Ë	95	3 c	5 0	
7 Australia				E	73	9	7 .	
8 Netherlands	05 1998	E	05 1995	C	87	6		
9 Iceland	04 1995	E	en	es A			3 :	
10 United Kingdom	05 1997	E	1997 b	A	72	10 °	3.	
11 France	05 1997	8	09 1998	E	71	9	8 (	
12 Switzerland	10 1995	Ē	10 1995	£	42	15 c	6	
	03 1995	E			68	7 c	4+	
13 Finland		Ē	1997 b	Ä	82	5	†	
14 Germany	09 1998	E E			86	10		
15 Denmark	03 1998	E .	9.0	91				
16 Austria	12 1995	E	11 1994 b	E	86	5	3	
17 Luxembourg	06 1994	E	**	64	88 <sup>d</sup>	5	nt	
18 New Zealand	10 1996	E	40	N	88	6	41	
19 Italy	04 1996	E	04 1996	E+A	83	4.0	6 ¢	
20 Ireland	06 1997	Ē	08 1997	E+A	66	7 °	5 4	
20 ITEIBIRG	00 1331	_			77	8 c	4 4	
21 Spain	03 1996	E	03 1996	E	77	_	4.	
22 Singapore	01 1997	E+A	ty.	41	41	3	**	
23 Israel	05 1996	E		49	79	11	n	
25 Brunei Darussalam®	_	_	-	-	_	-	-	
26 Cyprus	05 1996	E	40	6-6	93	5	**	
					76	5	64	
27 Greece	09 1996	E	10	aj	67	4		
28 Portugal	10 1995	Е	20	10 6	†	+	t	
29 Barbados	01 1999	E	01 1999	A		4 c	·	
30 Korea, Rep. of	04 1996	E	14		64		2	
31 Bahamas	03 1997	E	03 1997	A	68 <sup>d</sup>	2	2	
Ma he to	00 1000	Е		de .	95	2	a b	
32 Malta	09 1998	E C	et	-	74	8	**	
33 Slovenia	11 1996	E e	12 1997	E+A	86	7 4	6 °	
34 Chile	12 1997	E	12 1331	LTA	80	0	10	
35 Kuwait	10 1996	E	44.4000	Ë	74	5	4	
36 Czech Republic	06 1998	E	11 1998	E	/4	•		
37 Bahrain	12 1973 <sup>f</sup>	E	-	_	-	girls	_	
	03 1994	Ē	03 1994	A	62 <sup>d</sup>	3	3 c	
38 Antigua and Barbuda		Ē	12 1995	E -	78	6 °	4.0	
39 Argentina	10 1997	E	11 1994	E	91	3 °	3 c	
40 Uruguay	11 1994	E .	11 1337	_	-	an .		
41 Qatare	40	_			0.4	٤		
42 Slovakia	09 1998	E	-	dh	84	6	43-	
43 United Arab Emirates	12 1997	* A	ed	60		-	"	
44 Poland	09 1997	E	09 1997	E	48	6	6	
45 Costa Rica	02 1998	E	64	40	70	7	**	
Medium human development	V4.100	-1						
PARTY TO THE PROPERTY OF THE PARTY OF THE PA	11 1005	E	11 1995	A	63	3	2 °	
46 Trinidad and Tobago	11 1995	Ē	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40	56	, 6 c	016	
47 Hungary	05 1998	E	11 1998	E	†	8 c	5 t	
48 Venezuela	11 1998			44	74	4 c	44	
49 Panama	05 1994	E	07 1997	E	57	5 .	5 c	
50 Mexico	07 1997	E	U/ 125/	-		_		

# 22 Profile of political life

		ctions for r single house		tions for use or senate	Voter		itical epresented
HDI rank	Date of latest elections	Members elected (E) or appointed (A)	Date of latest elections	Members elected (E) or appointed (A)	at latest	In lower or single house	In upper house or senate
51 Saint Kitts and Nevis	07 1005						
52 Grenada	07 1995	E+A	41	16	68 4	4	41
53 Dominica	01 1999 06 1995	E	01 1999	A	57	1	
54 Estonia	03 1995	E+A	44	to .	75 4	3	
55 Croatia	10 1995	8		**	70	7	ns .
		E	04 1997	E+A	69	5 4	6
56 Mataysia 57 Colombia	04 1995	E	03 1998	'E+A	72	5	A
58 Cuba	03 1998	E	03 1998	E	45	2.	T
59 Mauritius	01 1998	E	00		98	1	2 4
60 Belarus	12 1995	E+A		**	80	5	24
	11 1996 4	A	11 1996	A	_	1	80
61 Fiji	02 1994	E	02 1994	A.			7
62 Lithuania	10 1996	E		A	75 d	6:	1
63 Bulgaria	04 1997	3	40	44	53	6	
64 Suriname	05 1996	٤	••	00	68	5	
65 Libyan Arab Jamahiriya	03 1997	E	**	**	67 4	5	
66 Seychelles			10	49	t	1	
67 Thailand	03 1998	E	69	61	87	3	
68 Romania	11 1996	8	03 1996	A	62	11	
69 Lebanon	11 1996	E	11 1996	E	76	7	Ť
70 Samoa (Western)	08 1996	E	PA		44		6
	04 1996	E		90	86	10	
71 Russian Federation	12 1995	¢.			00	2 .	6-
72 Ecuador	05 1998	Ē	-	A	-	9 (	†
73 Macedonia, TFYR	10 1998	E	99	file .	†	8 4	
74 Latvia	10 1998	Ē	91	**	73	7 (	
75 Saint Vincent and the Grenadines	06 1998	E+A	40	an .	72	6	
76 Kazakhstan			99	93	t	2	61
77 Philippines	12 1995	E	12 1995	E+A	76	6 °	
78 Saudi Arabia®	05 1998	E	05 1998	E	79	5 4	4° 2°
79 Brazil	10 1000	-	-	_	-	-	
80 Peru	10 1998	E	10 1998	Ε	1	127	-
	04 1995	Ε	**	-	63 4	12 4	9
81 Saint Lucia	05 1997	E	05 1997	A		13	**
82 Jamaica	12 1997	E	12 1997	A	66	2	2 (
83 Belize	08 1998	E	08 1998	A	65	2	†
84 Paraguay	05 1998	E	05 1998	A	90	2	21
85 Georgia	11 1995	E	03 1336	E	80	2	2 4
86 Turkey	12 1995		86	05	68	12 (	
87 Armenia	07 1995	3	81	00	85	5	
88 Dominican Republic	05 1998	E	40	99	56	8 <	47
89 Oman*	00 1996	E	05 1998	E	66	3	3
90 Sri Lanka	08 1994		-	-	~		3
91 Ukraine		E	**	bris	76	7:	_
92 Uzbekistan	03 1998	€				/-	
93 Maldives	12 1994	E	90	06	70	9 4	**
94 Jordan	12 1994	E+A	-	8.6	94	2 °	44
	11 1997	E	11 1997	** A	75 <sup>d</sup>	-	0.0
95 Iran, Islamic Rep. of	03 1996	E	111431	A	47	†	t
76 Turkmenistan	12 1994			40	77	2 4	64
7 Kyrgyzstan	02 1995	E	4.5	**	100	1	
8 China	11 1997	E	02 1995	E	61	+	†
9 Guyana	12 1997	E	he	90	t	1	
0 Albania	06 1997	£	-	dept.	98	5 .	
	MM 133/	Tr.			Market Comments of the Comment		

		tions for single house		tions for use or senate	Voter turnout		itical presented
HDI rank	Date of latest elections	Members elected (E) or appointed (A)	Date of latest elections	Members elected (E) or appointed (A)	at latest elections (%)*	In lower or single house	In upper house or senate
	04 1004	E	04 1994	E	87	7	5
101 South Africa	04 1994	E			95	5	11
to2 Tunisia	03 1994			84	86	g c	14
103 Azerbaijan	11 1995	E	tell .	01	72	4	**
104 Moldova, Rep. of	03 1998	8	4h	89	89	3	**
105 Indonesia	05 1997	E+A	41	49			
106 Cape Verde	12 1995	Ε	60	40	77	3	**
107 El Salvador	03 1997	E	99	0.0	89	9	
108 Tankistan	02 1995	· E		00	84	4	4
109 Algeria	06 1997	E	12 1997	E+A	66	10 °	· ·
110 Viet Nam	07 1997	E	90	Mr)	100	1 4	6.9
		F		40	82	1 5	åd
111 Syrian Arab Republic	11 1998	E E	06 1997	E	70	7	5
112 Bolivia	06 1997	_	09 1993	E+A	t	-	-
113 Swaziland	10 1998	E+A			73 d	5	84
114 Honduras	11 1997	E	44 4003	E E	76	5	t
115 Namibia	12 1994	E	11 1992	Ę.			
116 Vanuatu	03 1998	E	=	48	75	3 (	44
	11 1995	E	94	#4	1	7	88
117 Guatemala	08 1997	E	94	h1	64 <sup>d</sup>	2	40
118 Solomon Islands	06 1996	£	99	64	88	4 6	49
119 Mongolia	11 1995	E+A	99	10	48	6 °	#4
120 Egypt					77	4 4	
121 Nicaragua	10 1996	E	6d	61	77 d	2	***
122 Botswana	10 1994	E	44	##	65	3	**
123 São Tomé and Principe	11 1998	E		E E	t	7 4	6 °
124 Gabon	12 1996	Ε	01 1997	C	94	4 c	21
125 traq	03 1996	E	20	44			13
	11 1997	E	12 1997	E	58	15	†
126 Moracca	05 1998	E	05 1998	A	74	2	1
127 Lesotho	04 1990 h	Ē	_	_	-	_	-
128 Myanmar		Ē	10	pa	81 <sup>¢</sup>	9 °	FP
129 Papua New Guinea	06 1997	E+A	14	40	57	2	114
130 Zimbabwe	04 1995				t	4	43
131 Equatorial Guinea	11 1993	E		E c A	62	15 °	8 c
132 India	02 1998	E+A	03 1998	E+A	65	4	01
133 Ghana	12 1996	E	nh nh	-	76	44	89
134 Cameroon	05 1997	E	45	41	70	_	_
135 Congo	01 1998 1	A		-		4.0	
		E+A	**	10	65	10	45
136 Kenya	12 1997	E	P1	04	Ť	3	9.0
137 Cambodia	07 1998	E	03 1997	E	35	4 °	
138 Pakistan	02 1997	E		14	20	2 °	85
139 Comeros	12 1996	L					
Low human development					^^	1 "	
	12 1997	E	14	1.0	99		**
140 Lao People's Dem. Rep.	10 1993	E	**	45	10	**	**
141 Congo, Dem. Rep. of the	03 1996	E	61	**	55	- E	**
142 Sudan		Ē	86	40	65	5 5*	4
143 Togo	02 1994	Ē	06 1997	E+A	62	_	7
144 Nepal	11 1994	E+A	nb	po-	-		\$10
145 Bhutan	1998			E	1	†	Ť
146 Nigeria	02 1999	E	02 1999		Ť	9.0	0+
147 Madagascar	05 1998	E	10	et.	61	, 2¢	**
148 Yemen	04 1997	E		E	39 d	3 c	3
149 Mauritania	10 1996	E	04 1996	E	74	4 °	86
172 IVIDUATION	06 1996	E	40	44	7.77		

# 22 Profile of political life

		ctions for r single house		ctions for MISE or senate	Voter		itical
HDI rank	Date of latest elections	Members elected (E) or appointed (A)	Date of latest elections	Members elected (E) or appointed (A)	at latest elections (%)3	In lower or single house	In upper house or senate
151 Zambia 152 Haiti 153 Senegal 154 Côte d'Ivoire 155 Benin	11 1996 06 1995 01 1999 11 1995 03 1995	E + A E E E	04 1997 01 1999	E E+A	40 31 41 71 4	4 ° 6 ° 6 2	t
156 Tanzania, U. Rep. of 157 Djibouti 158 Uganda 159 Malawi 160 Angola 161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic	10 1995 12 1997 06 1996 05 1994 09 1992 06 1995 01 1997 01 1997 11 1994	E+A E E E E E E E E	80 80 80 80 80 80 80 80 80 80 80 80 80 8	50 00 00 50 60 60 00	76 77 d 57 59 d 80 91 62 49	5 1 - 3 12 5 10 4	
166 Mali 167 Eritrea 168 Guinea-Bissau 169 Mozambique 170 Burundi 171 Burkina Faso 172 Ethiopia 173 Niger 174 Sierra Leone	07 1997 02 1994 07 1994 10 1994 06 1993 05 1997 05 1995 11 1996 02 1996 <sup>1</sup>	E E E E E E E E E E	12 1995 05 1995	E + A	t 22 t 45 d 88 45 85 d 39	8 1 5 3 2 4 1 °	91 1 1

<sup>†</sup> No information or confirmation available.

Note: Information is as of February 1999.

- a. For lower or single house.
- b. Data valid as of 1997.
- c. There are also independent and other parties not sufficiently represented to constitute a parliamentary group.
- d. Average turnout in the 1990s. No official data available. The figures are from IDEA 1997.
- e. The country has never had a parliament.
- f. First legislature of Bahrain dissolved by decree of the emir on 26 August 1975.
- g. Following a referendum held on 24 November 1996, the Supreme Council elected in November-December 1995 was replaced by a bicameral National Assembly comprising some of the members of the former
- The Parliament elected in 1990 has never been convened nor authorized to sit, and many of its members were detained or forced into exile.
- j. Transitional unicameral Parliament dissolved following change of regime in May 1997.
- k. Unicameral Parliament dissolved following a military coup d'état on 25 April 1997.

Source. IPU 1999b.



	Prisoners (per 100,000 people)	Juvenile prisoners (as % of total prisoners)	Intentional homicides (per 100,000 people)	Crimes (per 100,000 people)	Recorded rapes (thousands)
IDI rank	1994	1994	1994	1994	1994
High human development				<b>e</b> #	11
1 Canada	419.3		1.9	207.1	31.7
2 Norway	272.2	(.)	2.1	533.4	0.4
3 United States	207.7	0		40.4	102.2
4 Japan	38.5		1.0	18.4	1.6 0.9
5 Belgium	169.0	3.6	3.1	148.0	
6 Sweden	161.7	0.2	9.5	350.5	1,8
7 Austral a	129.4 *		3.6	398.4 3	14.0
8 Netherlands	182.4 *	**	14.8 ª	39.4 <sup>a</sup>	1.3 a
9 Iceland	00	66	91	94	90
10 United Kingdom	9.5	4ds	60	99	*1
11 France	138.3 4	80	4.7	93.1	6.5
12 Switzerland	ψs	no	2.3	563.2	0.3
13 Finland	171,3	64	10.1	116.5	0.4
t4 Germany	04	9-0			5.1 *
15 Denmark	289.5	1.3	4.9	270.9 *	0.5
16 Austria	216.2	0=	2.4	148.4	0.6
17 Luxembourg	86	978	7.5 *	196.5 °	(.)
18 New Zearand	187.4 *	00	45	44	40
19 Italy	177.2	1,4	4.7	67.3	0.9
20 Ireland	182.5 4	.04	0.7	128.6	0.2
21 Spain	156.7 *		1.6	65.5 *	1,2
22 Singapore	631.0	1.2	1.6	56,4	0.1
23 Israel	195.7	0.8	6.2	169.8	0.6
24 Hong Kong, China (SAR)	262.8	17.4	1.5	76.1	0.1
25 Bruner Darussalam	314.5	8.0	69	44	40
			1.5	18.6	(.)
26 Cyprus 27 Greece	66.5	12.2 5.9	2.5	24.2	0.3
28 Portugal	46,5 79,6	6.9	4.1 4	60.2 a	0.3 *
29 Barbados			11.8 4	217.7 *	0.1 *
30 Korea, Rep. of	64.4	23.4	1.5	3.9	6.2
	04.4	4.517	85.5	282.6	0.2
31 Bahamas	44	4.7	2.4	66.8	(.)
32 Malta 33 Slovenia	171.6	1,3	4.9	20.7	0.2
34 Chile	89.8	2.2	2.4	63.0	1,0
35 Kuwait	931.7	49	10.9	134.0	(.)
	**	40	2.1 *	9.17	0.9 *
36 Czech Republic	159.7	7.5	1.0 *	34.1 *	( <sub>*</sub> ) a
37 Bahrain	01	46		**	**
38 Antigua and Barbuda	**	**	7.5 *	14	
39 Argentina	44	**	5.8	44.9	44
40 Uruguay	**	**		2.9	0
41 Qatar	528.7	4.5	1.9	1.6	0.2
42 Slovakia	165.7	6.2	2.4		**
43 United Arab Emirates	**	+*	3.1	10.4	2.0
44 Poland	196.9	•	8.4	12.7	0.3
45 Costa Rica	226.2	"	···	0	
Medium human development	**	69	6.8 <sup>a</sup>	244.0 a	0.2 °
46 Trinidad and Tobago	177.6	T	4.3	2.5	0.8
47 Hungary	177.6	**	p = e,qP	33.9 ³	2.9 *
48 Venezuela 49 Panama	107.5	13	46	116.0	0.3
50 Mexico	197.5	**		14	

HDI rank	Prisoners (per 100,000 people) 1994	Juvenile prisoners (as % of total prisoners) 1994	Intentional homicides (per 100,000 people) 1994	Crimes (per 100,000 people) 1994	Recorded rapes (thousands) 1994
51 Saint Kitts and Nevis					
52 Grenada	m	**			
53 Dominica			49	dia .	44
S4 Estonia	302.3	7.7	24,4	9.9	41
55 Croatia	29.2	0.9	7.5	2.2 18.1	3.0
56 Malaysia	302.8	0.7			0.1
57 Colombia	82.4	to to	2.0 75.9	54.0	1.0
58 Cuba	ed ·	49	73.3	38.7	1.9
59 Mauritius	248.0	1.6	3.0	168.3	0 / \
60 Belarus	206.6	6.6	9.2	13.9	(.) 0.7
61 Fiji	фп	68	4.8	.,,,,	
62 Lithuania	247.1	2.8	14.2	9.1	0.1
63 Bulgaria	54.5	3.0	10.5		0.2 0.9
64 Sunname 65 Libyan Arab Jamahiriya	++	*		shin	0.5
· ·		•	+*	6-6	De .
66 Seychelles 67 Thailand	-	89	46		
68 Romania	80	10	9.7	28.4 4	2.5 *
69 Lebanon	112.0 *	65	5.8	1.2	1.4
70 Samoa (Western)	165.3	40	40	38.3	0.1
71 Russian Federation	165.3	12.4	2.4	56.7	(.)
72 Ecuador	1,538.9	40	21.8	50.4	14.0
73 Macedonia, TFYR	14 (DC) A	40	17.7	141.6	0.9
74 Latvia	86.4 768,0	1.8	61	6.0	(.)
75 Saint Vincent and the Grenadines			14.7	10.9	0.1
76 Kazakhstan	62	an	9.8 *	90	0.1
77 Philippines	6.2	62	15.0	56.4	1.9
78 Saudi Arabia	6.2	ža.	to the second	10	2.5
79 Brazil	01 90	**	•		
80 Peru	79.5		**	**	
81 Saint Lucia		46	99	ah	be
82 Jamaica	86,9	6.6	Ph.	115	11
83 Belize	10		27.1	231.1	1.1
84 Paraguay	14	**	10 5	05	19.4
85 Georgia	143,5	0.9	18.5 12.8	2.5	0.1
86 Turkey	100.6	1.7	12.0	20.8	(,)
87 Armenia	ff1.7	1.5		3.9	0.5
88 Dominican Republic 89 Ornan	96	64	5.8	0.7 *	(.)
90 Sri Lanka	94	do.	~4	60	01
	419.5 •	99	11.5 *	4.0	0.4 ª
91 Ukraine	108,2	5.9	8.9	64 64 P. D.	
92 Uzbekistan 93 Maldives	46	80		55.3	1.7
94 Jordan	277.9 •	ent.	0.5 4	271	6.4
95 Iran, Islamic Rep. of		00	7.1	3.7 * 4.1 *	(.)
	70	48	10		W
96 Turkmenistan	10	91		48	
97 Kyrgyzstan 98 China	251.5	1.8	12.0	56.0	0.4
9 Guyana	F70.0	46	4 4 44	<b>56.0</b> 0.3	44.1
0 Albania	536,9	10	18.0	252.4	0.1
	**	-	άν	the state of	W1 4

HOI rank	Prisoners (per 100,000 people) 1994	Juvenile prisoners (as % of total prisoners) 1994	Intentional homicides (per 100,000 people) 1994	Drug crimes (per 100,000 people) 1994	Recorded rapes (thousands)
101 South Africa 102 Tunisia 103 Azerbayan 104 Moldova, Rep. of	462.0  121.2	2.3	 8.0 8.6	29.4 6.5	0.1 0.3
105 Indonesia	30.4	31.4	0.8	0.3	1.7
106 Cape Verde 107 El Salvador	260.0	18.6	 3.2 •	**	  0.1 *
108 Tajikistan 109 Algeria 110 Viet Nam	OT DO Bo	0-0 940 879	<i>3.6.</i> ℃	94 96 84	DI
111 Syrian Arab Republic 112 Bolivia	FF 94	delt sek	2.8	18.5 1.6	0.1 2.3
113 Swazıland 114 Honduras 115 Namibia	967.0	11.6	31.1	55.9	0.5
116 Vanuatu 117 Guatemala	22.1 *	dt-	0.6 ° 30.1	36	(.) *
118 Solomon Islands 119 Mongolia	00 UP	ae 49	 1.3	  143.9	** (.)
120 Egypt 121 Nicaragua 122 Botswana	64.5 105.0 230.8 **	40 40	23.3 11.7 °	24.3 73.8 °	1.3 0.6 •
123 São Tomé and Principe 124 Gabon	66.8	66 86	133.7	(,)	  0.3
125 Iraq 126 Morocco	91	04	13.2	55.0	0.9
127 Lesotho 128 Myanmar	246.7	20.6	70.4 0.6 *	6.4 11.3 *	0.9 0.8 °
129 Papua New Guinea 130 Zimbabwe	49	54 25	9.4	98.8	3.1
131 Equatorial Guinea 132 India 133 Ghana	65.8 *	as ab	7.5 	2.2	13.2
134 Cameroon 135 Congo	P.F	40 49	10	86	±A 58
136 Kenya 137 Cambodia	44 44	dh dh	60 65	54 00 14	96 86 +1
138 Pakistan 139 Comoros	**		**		
Low human development		**	**	44	*1
<ul><li>140 Lao People's Dem. Rep.</li><li>141 Congo, Dem. Rep. of the</li><li>142 Sudan</li></ul>	  282.6	  0.8	  3.2	 5.9	0.6
143 Togo 144 Nepal		**		1.3 a	0.1 **
145 Bhutan 146 Nigeria	0	**	1.9	  2.5	2.4
147 Madagascar 148 Yemen	260.1	2.4	0.5  	2.3 	V <sub>1</sub> 1
149 Mauritania 150 Bangladesh				**	

fDI rank	Prisoners (per 100,000 people) 1994	Juvenile prisoners (as % of total prisoners) 1994	Intentional homicides (per 100,000 people) 1994	Drug crimes (per 100,000 people) 1994	Recorded rapes (thousands) 1994
					1334
151 Zambia	439.7	0.1	**	3.9	0.3
152 Haiti	74		P4	10	**
153 Senegal	н	**	44	.,	
154 Côte d'Ivoire			40	*1	,
155 Benin	**		*1	0	
156 Tanzania, U. Rep. of					
157 Djibouti	**	44	14	**	0
158 Uganda	108.0	1.0	49	**	**
159 Malawi			**		+4
160 Angola	19	*1	**	**	v
	**	**		**	4.5
161 Guinea	**	17	41	11	
162 Chad	4*		+1	47	
163 Gambia		**	**		,
164 Rwanda	87.0 ª	44	**	9.1 8	0.7 *
165 Central African Republic	*	•		14	
166 Mali	h+	**			
167 Entrea	**	**		**	
168 Guinea-Bissau	**	40	**		
169 Mozambique	4+	**	**	14	
170 Burundi	)+	**	"	**	
171 Burkina Faso			"	"	
172 Ethiopia	 48.9 <sup>a</sup>	"		44	
173 Niger			6.1 ª	**	0.3 a
174 Sierra Leone	**	**	•	**	
	**		H		
ul developing countries	**		**		
Least developed countries	,,	**	10	**	44
Sub-Saharan Africa	**		*4	**	k r
Arab States	**	.,	**	**	
East Asia			44	*1	
East Asia (excluding China)	**		**	71	
South-East Asia and the Pacific	**		**	40	**
South Asia	**		**	**	**
South Asia (excluding India)	н	**	**	0	"
Latin America and the Caribbean	•		**	**	4.4
astern Europe and the CIS	14		**		"
idustrialized countries	*1		"		
Vorld	**	**	10		**

a. Data refer to 1990.

Source: Columns 1 and 3-5: UN 1999b; column 2: calculated on the basis of data from UN 1999b.



Injuries

	and deaths from road accidents Suicides				Births to mothers	People killed or affected by	Refugees By country By country		
HDI rank	people)	(per 100,000 people)  Male Fernale 1990-95 <sup>a</sup> 1990-95 <sup>a</sup>		Divorces (as % of marriages) 1996	mothers under 20 (%) 1991-97*	disasters (annual average; thousands) 1969-93	of asylum (thousands) 1997	of origin (thousands) 1997	
High human development	750	19.0	5.6	40	6.9	1,149 T	2,801.2 T	**	
1 Canada	741	21.5	5.4	45	6.3	20	121.4	*1	
2 Norway	276	17.7	6.9	43	2.9	(.)	57.0	"	
3 United States	1,266	19.8	4.5	49	13.1	31	547.1	1+	
4 Japan	4.6	14			1.3	141	2.1 36.1	**	
5 Belgium	700	26.8	11.6	56	2.9	0		**	
6 Sweden	246	21.5	9.2	64	2.0	(,)	187.0	**	
7 Australia	6.0	21.0	4.7	**	4.9	3	60.2	61	
8 Netherlands	82	13.1	6.5	41	1.3	1	118.7	4.0	
9 Iceland	552	14	**	39	5.2	0	0.3	1.1	
10 United Kingdom	5 <b>59</b>	11.7	3.2	53	6.9	0	102.7	44	
11 France	304	31.5	10.7	43	1.9	34	147.3		
12 Sw tzerland	384	99	melt	40	1.3	0	83.2	e4	
13 Finland	183	43.4	11.8	56	2.6	(.)	11.7	n	
14 Germany	621	23.2	8.7	41	2.6	5	1,049.0	er .	
15 Denmark	192	24.2	11.2	35	2.0	(.)	57.0		
	651	34.2	11.0	38	3.9	(.)	84.4	**	
16 Austria 17 Luxembourg	374	57,2		39	2.0	44	0.7	**	
18 New Zealand	3/4 		84	**	7.5	2	1.9		
19 Italy	483	12.7	4.0	12	2.3	76	73.4	**	
20 Ireland	371	14.6	3.7	**	5.4	0	0.4	44	
		12.7	3.7	17	3.3	32	5.6	4.6	
21 Spain	330	16.3	10.5	1*	1.5	(,)			
22 Singapore	810	9,4	3.6	26	3.8	(.)	**	**	
23 Israel		14.3	9.2	44	1.9	2	1.2	10	
24 Hong Kong, China (SAR) 25 Brunei Darussalam	**	1 - 1 + 4	,,	41	6.3	97	**	11	
	*1			13	3.8	0	14	**	
26 Cyprus	603	5.9	1.2	18	4.7	29	5.5	19	
27 Greece	330	12.2	4.4	21	7.1	2	0.3		
28 Portugal	694		74 1	**	10	(.)	**	0	
29 Barbados	**	14.5	6.7	*1	0.9	81	**	+1	
30 Korea, Rep. of	**	. 1.5			13.8	(.)	0.1	41	
31 Bahamas		**	**	**	4.8		0.3		
32 Malta	203	AE 3	12.6	26	4.3		5.1	3.3	
33 Slovenia	453	45.3 10.2	1.4	.,	15.0	168	0.3	8.2	
34 Chile	**			**	4.0	a a	3.8	**	
35 Kuwait	4*		8.5	61	9.0	(,)	1.7	0.5	
36 Czech Republic	371	25.6			3.2	(.)	**	**	
37 Bahrain	**		**		15.8	43	44	9-4	
38 Antigua and Barbuda	40	10.6	2.9	**	15.7	511	10.5	**	
39 Argentina	**		4.		15.6	1	0.1	**	
40 Uruguay	44	**			3.8	**	*1		
41 Qatar	**	22.4	4.6	34	12.3	4+	0.7	**	
42 Slovakia	249	23.4				(.)	0.5	+1	
43 United Arab Emirates	22.4	24.3	4.7	19	7.8	1	0.8	1,2	
44 Poland	234	8.0	1.8		18.4	10	23.1	14	
45 Costa Rica			**		91	98,605 T	5,433.7 T	2,684.4 T	
Medium human development		17.4	5.0	**	13.7	2	**		
46 Trinidad and Tobago	257	50.6	16.7	46	11	(.)	5.9	8.2	
47 Hungary 48 Venezuela		8.3	1.9	**	19.9	5	0.3	14	
49 Panama	**	**		64	18.9	7	0.6	+1	
→ J Gliallia	••	5.4	1.0	**	15.7	88	31.9	**	

24 Personal distress

	Injuries and deaths from road				Births to	People killed or affected by	Refu	gees
	accidents (per 100,000	Suicides (per 100,000 people)		Divorces (as % of	mothers under 20	disasters (annual average,	By country of asylum	By country of origin
HDI rank	people) 1997	Male 1990-95 a	Female 1990-95ª	marriages) 1996	(%) 1991-97	thousands) 1969-93	(thousands)	(thousands) 1997
51 Saint Kitts and Nevis	49	84	65	0.0	16.7	,		
52 Grenada	-	40	tro:	910	41			
53 Dominica	4.45		41	10	46	40	85	11
54 Estonia 55 Croatia	146 378	67.6 29.7	16 9.8	15	12.9	80	CO O	0.8
	376	23.7	3.0	13	5.6	0.0	68.9	342
56 Malaysia	49			64	3.2	15	5.3	84
57 Colombia 58 Cuba	w+	5.5	1.5	119		243	0.2	1.2
59 Mauritius	₩ '	25.6 21.1	14.9	na	15.4	62	1.3	1.7
60 Belarus	86		5.9	68	10.6 14.0	40	0.4	0.1
	00	40	45	90	14.0	2	0.1	0.1
61 Fiji . 62 Lithuania	107	70.4	02	**	**	51	**	41
63 Bulgaria	187 94	79.1	15.6	SS	12.1	104 d h	00	0.3
64 Suriname		9.9	94	28	22.6	(.)	0.4	0.4
65 Libyan Arab Jamahiriya	26 0n	69	0.0	20	16.6	0		4.0
	**	an	69	**	61	(.)	8.5	
66 Seychelles 67 Thailand	M		**	200	16.2	50	61	
68 Romania	46	5.6	2,4	11 D. 4	13.0	481	169.2	+4
69 Lebanon		20.3	4.6	24	16.5	58	0.6	4.6
70 Samoa (Western)	40	10	ād:	60	10	2	3.1	5.5
71 Russian Federation			80	ōe	91	(.)	٠	91
72 Ecuador	139	72.9	13.7	65	17.5	2	237.7	3.9
73 Macedonia, TFYR	170	de .	8-9	**	17.2	62	0.2	64
74 Latvia	211	70.8	14.7	5	10.0	(.)	3.5	12.3
75 Saint Vincent and the Grenadines				63	10.5	**	0.0	1.6
76 Kazakhstan		10.0	97	÷9	20.5	0	h.	81
77 Philippines	95	48.9	9.4	39	12.6	1	15.6	40.2
78 Saudi Arabia	09	es ,	-¢-les	+a	6.2	2,051	0.3	4.0
79 Brazil	00	99.		47	**	0	5.8	
80 Peru	***	44	40	qu-	18.0	1,879	2.3	7.4
81 Saint Lucia		10	40	86	2.0	514	0.8	2.4
82 Jamaica	44	64	vá.	11	8.0	44	94	
83 Belize	10	p-8	99	+0	19	54	**	
84 Paraguay	49	p4 80	4.0	6.0	17.7	4	8.4	81
85 Georgia	49	**	89 9P	12	4.5 19.7	18	0.1	46.7
86 Turkey	176		**			4	0.2	46.2
87 Armenia	48	848	46	6	12	33	2.4	36.5
88 Dominican Republic		44	dt	18	20.8	52	219.0	201.0
89 Oman	99	41	60	ψ»	44	102	0.6	6+
90 Sri Lanka	P9	Rb	***	B É Ada	8.3	0	411	na 6
91 Ukraine	94		-			579	48	93.6
92 Uzbekistan	58	de	**	63	19.9	16	4.6	2.6
93 Maldives	**	85	67	12	10.9	2	3.2	68.7
94 Jordan	46	bi	dip did	**	14.8	1	0.7	+4
95 Iran, Islamic Rep. of	ea.	**	66	da *	11.7	1 72	0.7	 56.8
96 Turkmenistan	ab				114	73	1,982.6	30.0
97 Kyrgyzstan	96	21.2	6.1	18	10.5	dh.	15.8	
98 China		4 ls4.		25	10.6	6	15.3	16.3
99 Guyana	64	44	mm 14	40	40	23,655	291.5	119.8
100 Albania	19		14	To .	94	11	44	48

24	<b>Personal</b>
	distress

	Injuries and deaths from road	/			Births	People killed or	Refi	ıgees	
	accidents (per 100,000	accidents Suicides per 100,000 (per 100,000 people)		Divorces (as % of	to mothers under 20	affected by disasters (annual average;	By country of asylum	By country of origin	
HDI rank	people) 1997	<b>Male</b> 1990-95 <sup>a</sup>	<b>Female</b> 1990-95 a	marriages) 1996	(%) 1991-97°	thousands) 1969-93	(thousands) 1997	(thousands) 1997	
101 South Africa	80	ed	άθ		w/s	263	6.5		
102 Tunisia	10	69	nh	**	2.9	19	0.5	0.3	
103 Azerbaijan	38	1.1	0.2	15	34	(.)	233.7	234.2	
104 Moldova, Rep. of	104	29.7	8.3	52	19.8	84	48	4.5	
105 Indonesia	Be	80	**	49	94	316	44	8.2	
106 Cape Verde	44	***	adı	44	14.7	0	84	di	
107 El Salvador	10		**	14	20.2	65	0.1	13.4	
108 Tajikistan	37	5.1	2.3	13	9.8	3	2.2	75.7 0.3	
109 Algeria 110 Viet Nam	99	19	44	0.6	Po	1,579	170.7 15.0	316.6	
	20	9.6	no.	20	**				
111 Syrian Arab Republic	11	47	8-4	b4	**	5 162	22.7 0.3	3.4	
112 Bolivia 113 Swaziland	AB	419	(8.0)	40	14	62	0.5	4.6	
114 Honduras	èu	-61	**	st. fe	99	49	0.0	0.2	
115 Namibia	**	14	89	41	**	10	2.5		
						7		64	
116 Vanuatu 117 Guatemala	84	2.0	aa	86	17.3	158	1.5	32.2	
118 Solomon Islands	44	М	9h	24	44	9	0.8	34	
119 Mongolia		48	44	16	ga	4	86	**	
120 Egypt	ph ph	an	P4	40	2.3	3	6.4	da.	
121 Nicaragua			40	49	40	59	0.5	19.6	
122 Botswana	e)	10	**	bö	44	171	0.3	60	
123 São Tomé and Principe	**	14	91	+4	+4	8	46	11	
124 Gabon	29	44	po.	ed.	to	0	0.9		
125 Iraq	29	69	64	il d		ņ:	104.0	630.7	
126 Morocco	44	÷s.	1-0	94	9.2	17	0.1	0.1	
127 Lesotho	40	40	**	qa	50	34	ψ×	422.7	
128 Myanmar	24	**	44	do	**	239	07	132.3 0.8	
129 Papua New Guinea	**		20	PR	146	8 184	8.2 0.8		
130 Zimbabwe	10	15	##	ęs.	14.5		0.0	0.4	
131 Equatorial Guinea	46	**	14	**	84	(.)	122.4	0.1	
132 India	41	+4	10	20	**	63,271 501	223.1 22.9	13.3	
133 Ghana	qu	qui	40	14	45	41	47.1	1,3	
134 Cameroon	TP	0.0	ab	to	44	(,)	20,6	20.7	
135 Congo	50	(re-	\$0	80	**	142	232.1	8.7	
136 Kenya	46	640	34	44		42	41	100.0	
137 Cambodia	44	44	54	ne	8,0	983	1,202.7	0,3	
138 Pakistan 139 Comoros	(crit	4000	-4	0.0	- 11	15	19	"	
	**	40		75	. 27	19,409 T	3,023.0 T	2,490.2 T	
Low human development	0	44	10			192	19	15.8	
140 Lao People's Dem. Rep.	46	44	-10	01	**	33	297.5	165.7	
141 Congo, Dem. Rep. of the	49	44	- 44	40	90	987	374.4	351.3	
142 Sudan 143 Togo	ab	u b	14	4b	84	24	12.7	6.4	
144 Nepal	•	pš	41	пэ	94	252	129.2	400.0	
	**	**	**	**	**	si-d	99	108.7	
140 BRUTAN					64	125	9.0	1.0	
145 Bhutan			99	ào	64				
146 Nigeria	60	¢=	27	do do	6-8 ->-s	255	41	AV	
146 Nigeria 147 Madagascar	en da	ф m 	es es	ào ào		255 121		1.2	
146 Nigeria	em file file file	ф. ф.Ф « Р	27 25 21	20 20 05	ès	255	41	AV	

24	Personal
	distress

	Injuries and deaths from road				Births to	People killed or affected by	Refu	gees
	accidents	<b>Suic</b> (per 100,0		Divorces	mothers	disasters	By country	By country
HDI rank	(per 100,000 people) 1997	Male 1990-95°	Female 1990-95°	(as % of marriages) 1996	under 20 (%) 1991-97°	(annual average; thousands) 1969-93	of asylum (thousands) 1997	of origin (thousands) 1997
151 Zambia						103	165.1	
152 Haiti	45	81	411	-	62	160	40	2.7
	40	86	**		4th	291	57.2	17.1
153 Senegal 154 Côte d'Ivoire	40	-	85	**	65	0	208.5	
155 Benin	ep	04	**	86	40	136	2.9	81
	43	94	40	**	40			
156 Tanzania, U. Rep. of	07	00	40	10	6.0	141	570.4	13
157 Djibouti	65	10	40	+4	**	28	23.6	8.0
158 Uganda	0.5	96	**	**	**	57	188.5	50.5
159 Malawi	65	po.	60	m	-	460	0.3	14
160 Angola	5.0	4m	**	440	4b	60	9.4	262.7
161 Guinea						1	435.3	0.4
162 Chad	64		40	-	10	283	0.3	54.7
163 Gambia	Eq.	ęn.	the .	=	••		7.3	34.7
	649	00	**	-	40	29		63.6
164 Rwanda	60	10	**	-	41	164	34.2	63.6
165 Central African Republic	per	26	40	ph.	60	1	38.6	
166 Mali	80	90	10		40	209	12.6	10.4
167 Eritrea	**	20	69	En.		0	2.6	315.6
168 Guinea-Bissau		20	40		**	0	15.9	0.9
169 Mozambique	F2	ert.			100	1,180	0.1	33.6
170 Burundi	20			***	40	0	22.0	515.8
474 Builder Fran			-	44	**			2 - 2 - 2
171 Burkina Faso	to g	45	88	96	-	279	1.8	
172 Ethiopia	PE	0.6	816	10	60	2,402	323.1	63.4
173 Niger	41	de	ero.	40	49.	313	7,4	2.5
174 Sierra Leone		00	θφ	00	est	1	13.0	328.2
All developing countries			41				7,669.6 1	
Least developed countries	**	,,	4-				2,749 1 T	7,7 15 T
Sub-Saharan Africa							2,770 O T	6,0054T
Arab States					**	**	763.3 T	2,010 1
East Asia	.,				**	•	292 7 T	11981
East Asia (excluding China)				,	•	•		1.0.
South-East Asia and the Pacific				*,	**	**	**	
South Asia		.,	**	•	•	**	2 5 5 0 2 T	
South Asia (excluding India)	**	·	· ·	14	to.	4	3,559 2 T	300 C T
Latin America and the Caribbean	**	**	**	**		\$×.	3,336 1 T	300.6 T
Eastern Europe and the CIS	138	51,9	10.5	48	**	**	83 2 T	1 300 1 7
Industrialized countries	789	19.5	5.7		**		835 0 T	1,369 1 T
World				41	**	**	2,753.3 T	
TTOTO		**	9.6	**		**	11,975.5 Th	

a. Data refer to the most recent year available during the period specified in the column heading.

b. Data refer to estimate by UNHCR 1998.

Source: Column 1: calculated on the basis of data from UNECE 1999b; columns 2 and 3: WHO 1998b; column 4: UNECE 1999a; column 5: UN 1999a, column 6: International Federation of Red Cross and Red Cross cent Societies 1995; columns 7 and 8: UNHCR 1998.

			Female adult	t		nale prin t enrolm	-		ale secon		Fe	male tert		science enrolment (as % of
HDI rani	HDi rank			As % of male rate 1997	(as % of relevant age group) 1997	Index (1985 = 100) 1997	As % of male ratio 1997	(as % of relevant age group) 1997	index (1985 = 100) 1997	As % of male ratio 1997	Per 100,000 women 1996	index (1985 = 100) 1996	As % of males 1996	female
High h	numan development		10	**	99.3	101	100	94.5	106	101	4,227	134	105	24
	Canada	41		**	99.9	100	100	94.4	103	98	6,329	93	112	**
	Norway	17			99 9	103	100	98.0	112	101	4,564	195	121	27
	United States	**			99.9	106	100	96.2	100	100	5,844	112	121	**
	Japan				99.9	100	100	99.9	104	100	**	>+	**	13
5	Belgium			14	99.9	100	100	99.9	100	100	**		0	24
6	Sweden			17	99.9	100	100	99.9	117	100	49	**	**	27
	Austrana		,	11	99.9	100	100	96.0	108	100	5,608	250	102	25
	Netherlands	•			99.9	100	100	99.9	100	100	2,986	132	89	17
	Iceland				99.9	100	100	88.1	115	101		4.0	4+	**
	United Kingdom			14	99.9	100	100	93.2	103	103	3,102	192	98	24
		**			99.9	100	100	98.6	99	100	3,850	169	115	30
	France			**	99.9	100	100	80.3	106	92	1,541	146	59	15
	Switzerland	*	.,	**	99.9	100	100	96.2	103	102	4,303	174	106	23
	Finland			**	99.9	100	100	94.9	112	99	2,287		77	21
	Germany Denmark		•	**	99.9	100	100	95.4	112	101	3,468	157	119	28
13	Deblodik			••		100	100	97 1	108	99	2,816	142	90	26
	Austria	τ=	•	**	99.9	100					2,0.0	44	**	40
	Luxembourg		**	**		100	100	94.0	107	102	4,990	187	124	31
	NewZealand		, , ,		99.9	100	100	96.0	136	102	3,197	171	106	33
	Italy	97.8	102	99	99.9 99.9	100	100	99.9	103	100	3,656	213	102	33
20	Ireland	h.d.	**							102	4,164	178	108	41
21	Spain	96.2	103	98	99.9	100	100	93.0	104	98	2,250	201	81	**
22	Singapore	87.0	111	91	90.5	93	98	74.8	112			201	.,	32
23	Israel	93.4	104	96			104	71.5	97	107			**	19
24	Hong Kong, China (SAR)	88.4	110	92	93.2	95	104	83.9	100	105	640	**	156	36
25	Brunei Darussalam	86.0	118	92	88.5	113	101	03.3	100			205	69	28
26	Cyprus	93.5	108	95	40	-				104	1,130 2,998	170	91	27
	Greece	94.9	107	97	99.9	100	100	93.1	114	104 103			,,	38
28	Portugal	88.3	110	94	99.9	100	100	91.0	151 105	94	2,965		138	44
	Barnados	97.0	102	99	94.5	95	95	83.1 99.9	116	100	4,182	196	60	16
30	Korea, Rep. of	95.5	105	97	99.9	100	100				.,			
31	Bahamas	96.4	102	101	99.9	101	113	95.9	103	130	**	14		21
	Malta	91.7	106	101	99.9	103	100	83.3	101	96	2,985	185	119	29
	Slovenia	99.0	100	100	*1	**			445	105	2,291	163	82	29
	Chile	94.9	103	100	89.2	98	97	87.2	115	100	2,590	151	134	43
	Kuwait	77.5	113	93	64.0	75	96	63.2	74		2,300			25
26	Czech Republic		94	**	99.9	100	100	99.9	108	100	**	•	* 6	42
	Bahrain	80.7	121	90	98.8	99	101	90.8	93	108	1+	**	**	10
	Antiqua and Barbuda		9.5	**		4+	**	10	107	109	**	**	47	36
	Argentina	96.5	102	100	99.9	103	100	79.8	107	108 112	**		.,	,
	Uruguay	97.8	102	101	94.8	107	101	88.7	110		.,			
		81.2	114	102	84.5	88	103	72.0	90	97	3,278	116	531 96	44
	Qatar Slovakia		417					**		***	1,864	200	608	91
	United Arab Emirates	76.8	115	104	81.3	103	98	79.9	153	105	1,721	155	121	31
	Poland Poland	99.01		100	99.3	100	100	88.5	113	105 104	2,058		161	
	Costa Rica	95.1	103	100	92.5	110	102	56.9	109		**			
	um human development	+4	,,	14	88.5	109	95	59.9	129	86	662	14	71	
	,			98	99.9	103	100	72.2	97	102	685	159	81	34
	Trinidad and Tobago	97.0	103	100	96.7	99	99	98.2	134	103	1,965	202	104	28
	Hungary	99.0	106	99	83.6	96	103	54.2	181	124	**	43	k*	36
	Venezuela	91.6 90.4	105	99	90.2	100	101	71.7	111	101	-1	••	48	36 26
	Panama	20.4	100	95	99.9	100	100	64.0	104	94	**	41		20

Female

25	Gender gaps
	in education

	in education		Female adul	t	ne	nale prin t enrolm		ne	ale secon t enrolm	-	Fer	male terti		Female tertiary science enrolment
HDI rai	nk	Rate (%) 1997		As % of male rate 1997	Ratio (as % of relevant age group) 1997	(1985 = 100) 1997	As % of male ratio 1997	Ratio (as % of relevant age group) 1997	(1985 = 100) 1997	As % of male ratio 1997	Per 100,000 women 1996	Index (1985 = 100) 1996	As % of males 1996	(as % of female tertiary students) a 1995
51	Saint Kitts and Nevis	11	4-	.,	**	.,								
52	Grenada	44.	BD		40	20	**		80		40	**	**	
53	Dominica	ah	**	811	***	91		00	40	g.	41	94	**	28
54	Estonia	60	**	44	99.9	100	100	87.4	87	103	2,982	168	102	25
55	Croatia .	96.4	105	97	99.9	100	100	73.0	88	102	1,875	10	97	27
56	Malaysia	81.0	118	90	99.9	100	100	68.5	129	115				
	Colombia	90.8	105	100	89.4	132	100	78.2	126	105	1,820	142	106	32
58	Cuba	95.9	102	100	99.9	107	100	72.6	96	108	1,223	48	152	35
59	Mauritius	79.2	111	91	96.6	97	100	69.9	141	106	578	696	95	
60	Belarus	98.5	105	99	41	an an		11	4.44		3,323		110	- 11
61	Fiji	- 89.4	108	95	99.9					100	- Joseph	+6	110	**
	Lithuania	99.0 b	103	100		103	100	84.4	130	100	2.524	14	124	6.0
	Bulgaria	97.6	103	99	99.2	102	103	75.4	78	DE .	2,524	77	131	41
	Suriname	91.6	45		99.9	106	100			95	3,721	270	151	45
65	Libyan Arab Jamahiriya	62.9	154	71	99.9	106	100	99.9	122	100	11	9.0	41	10
	Seychelles				2010	100	100	33.3	12.2	100	14	bre	**	41
	Thailand	92.8	107	11	00.3	**	54	10		610	0.0	9.6	6.0	33
	Romania	96.7	107 104	96 no	89.2	101	103	46.9	191	97	**	12	24	23
	Lebanon	78.3	115	98 86	99.9	115	100	76.3	80	101	1,892	304	109	38
	Samoa (Western)				74.9	99	97	40	10	44	2,605	**	92	37
			4#	ø4	96.8	98	101	80	44	60	wi	**	2.0	26
	Russian Federation	98.8	104	99	99.9	107	100	90.7	91	107	40	0.0	**	34
	Ecuador Masadonio TEVO	88.8	108	96	99.9	104	100	51.3	79	101	10	43		6-0
	Macedonia, TFYR Latvia	00 0 h	47	**	by	9-0	-	34	**	+4	1,552	**	121	38
	Saint Vincent and the Grenadines	99.0 b	101	100	99.9	100	100	80.5	87	100	2,467	128	125	28
		84	10	89	-	10	н	d+	8.0	10	p-s	- 01	01	**
	Kazakhstan	40	99	++	86	**	**	84	li b	40	3,032		118	**
	Philippines	94.3	105	99	99.9	102	100	78.5	118	102	3,404		133	27
	Saudi Arabia Brazil	62.5	152	77	58.0	137	93	52.9	127	82	1,528	190	109	- 11
	Peru Peru	83.9	109	100	94.3	121	94	67.0	136	103				34
		83.7	111	89	93.3	98	99	81.1	106	94				,
	Saint Lucia	60	94	10	.,	wp	**							
	Jamaica	89.6	106	110	95.7	97	100	72.1	111	107	658	160	75	
	Belize	44	9.6	da	99.9	112	100	62.6	105	97				91
84	Paraguay	91.1	106	97	97.0	107	101	60.1	164	97	1,098	9-6	110	42
	Georgia	side	94	эv	88.6	99	99	75.3	75	99	2,970	44	98	40
	Turkey .	73,9	115	80	98.1	101	98	48.5			4214	0.5	50	
	Armenia	€A.	410		25 25	n in			134	72	0.000	91		28
	Dominican Republic	82.3	108	99	93.6	94	105	82.1	141	100	1,066	0.0	121	+=
	Oman	55.0	206	72	66.7	105	97	65.1	319	109 96	E24	020	07	+4
90 3	iri Lanka	87.6	107	93	99.9	100	100	79.3	112	109	524 388	970	97 69	20
91 L	Ikraine	£4	D-A					* 242	114	103	300	129	09	**
92 L	Izbekistan	Ala		**	**	**	**	**	**	**	**	**	1+	
93 N	laldives	95.6	104	100	43.	10.00	100	***	50	20	9.0	6.6	91	41
94 k		81.8	130	89	20	40	99	fi >	ah	this.		**	44	11
95 In	an, Islamic Rep. of	65.8	169	81	89.2	120	98	7E 0	160		2,492	132	96	35
96 Tr	rkmenistan					120	50	75.8	168	88	1,192	544	60	20
	rgyzstan	80	40	25.	00.2		***	10	**	29	44	**	40	er
98 Ch		74.5	122	82	99,3	99	100	78.7	79	102	**	811	AP	38
99 Gu		97.5	103	99	99.9 93.0	114	100	65.1	145	88	327	164	54	**
100 All		27.10	103			93	100	76.4	104	104	886	319	87	24
				69	0.0	==		40	90	dray	1,167	108	136	40

25	Gender gaps
	in education

in education		Female adult	:	ne	nale prin t enrolm		ne	ale secon		Female tertiary students			tertiary science enrolment (as % of
HDI rank	Rate (%) 1997		As % of male rate 1997	Ratio (as % of relevant age group) 1997	(1985 = 100) 1997	As % of male ratio 1997	Ratio (as % of relevant age group) 1997	index (1985 = 100) 1997	As % of male ratio 1997	Per 100,000 women 1996	Index (1985 = 100) 1996	As % of males	female tertiary students) a 1995
101 South Africa	83.2	107	98	99.9	123	100	96.9	140	104	qu		g a	38
102 Tunisia	55.8	143	72	99.9	114	100	72.4	167	95	1,201	293	82	28
103 Azerbaijan	AD.		10	41		ba	9.6	64	**	1,472	59	94	80
104 Moldova, Rep. of	97.4	106	98	44	**	0.5	ža.	pto.	**	2,216	61	111	
105 Indonesia	79.5	119	88	98.6	103	99	53.4	115	91	812	**	53	23
	62.5	132	76	99.9	107	100	35.5	125	94	8.6	14	20	ψn
106 Cape Verde	74.2	114	93	89.1	128	100	36.7	114	102	1,907	146	97	28
107 El Salvador		104	99							1,191	68	47	13
108 Tajikistan	98.3		56	92.6	117	93	64.0	151	88	1,000	197	68	35
109 Algeria	47.7	146		99.9	114	100	54.2	119	97			11	44
110 Viet Nam	89.0	110	94	33.3						0.0	**	41	
111 Syrian Arab Republic	56.5	139	65	90.6	98	92	39.4	79	87	* tre		10	30
112 Bolivia	76.8	119	85	94.9	115	95	37.1	89	86	E 40	40	49.49	16
113 Swaziland	76.3	119	97	95.3	118	102	78.8	128	93	542	44	72	16
114 Honduras	70.2	112	99	88.6	95	103	37.9	77	111	***	6.0	45.4	26
115 Namibla	78.5	117	97	94.0	98	106	83.9	113	108	894	8.0	154	31
116 Vanuatu		29	00	69.2	96	95	38.8	111	84	**	14		4+
117 Guatemala	58.9	119	79	70.2	115	91	31.7	122	83	14.	**	47	14
118 Solomon Islands				45	84	10		**	8.0	**	61	+4	31
119 Mongolia	78.6	115	88	87.5	88	106	63.7	69	132	2,432	92	226	53
-	40.5	139	63	90.6	122	91	70.1	158	88	1,472	142	64	27
120 Egypt						104	52.6	102	108	1,261	124	105	64
121 Nicaragua	63.4	106	100	80.2	106	104 106	91.3	195	106	555	354	87	26
122 Botswana	76.9	118	107	82.6	87				91		,,	40	P1
123 São Tomé and Principe	p=		14	10	**	24	45	47	41	**	**	33	**
124 Gabon	56.8	157	75	60.6	80	88	33.8	74	66	16	0.6	**	# é
125 Iraq	99	11		69.6									28
126 Morocco	32.7	164	55	67.2	137	78	31.9	103	74	220	203	116	21
127 Lesotho	92.5	107	129	74.3	90	118	80.3	93	122	238			61 /
128 Myanmar	78.8	112	89	98.5	131	99	53.0	149	96	209	294	50	. (
129 Papua New Guinea	64.7	125	79	72.5	121	85	H	444	 91	373	234	41	14
130 Zimbabwe	87.6	112	93	92.2	92	98	56.3	111	91	2/3	å4	-4.0	
131 Equatorial Guinea	70.1	133	77	79.9	80	102	64.8	92	90	44	**	10	40
132 India	39.4	134	59	71.0	111	86	48.0	133	68	481	134	61	91
133 Ghana	56.5	10-1	14	41.8	107	93	**		49	£4	46	g-6	84
134 Cameroon	64.6	147	82	59.1	86	92	34.7	90	77	44	64	ah	51
135 Congo	69.8	145	83	75.8	77	94	74.3	74	79	0.0	"	**	**
				66.6	86	105	57.4	102	89	11	16	9.9	n
136 Kenya	71,8	4A	8.0	99,9	100	100	30.9	109	66	30	0	18	10
137 Cambodia	20.0	454	46		10	**	**	4=	80	48	+1	61	-51
138 Pakistan	25.4	151 107	77	45.4	85	83	32.2	100	82	10	10	49	0
139 Comoros	48.2	107	,,			80	21.1	116	60_	54	65	14	*4
Low human development		44	**	50.4	117				72	151	141	42	11
140 Lao People's Dem. Rep.	46.8	142	66	69.2	104	90	52.9	113 99	63	48	14	(1	Ev.
141 Congo, Dem. Rep. of the	**	44	64	47.8	91	70	28.6			64	,,		н
142 Sudan	41.3	171	63		44.4	7.4	40.0	167	 52	107	228	20	5
143 Togo	38.3	166	56	70.2	144	74	39.7	187	58	**	14	41	-0.0
144 Nepal	20.7	204	37	62.5	167	67 88			44	94	10	69	-0
145 Bhutan	30.3	161	52	12.3	119	00	et	10	40				
146 Nigeria	50.8	170	74	06	44	84	169	65	46	155	57	81	31
147 Madagascar			44	59.4	82	102	ā+	44	91	156		14	
148 Yemen	21.0		32	14	44	49	60	4h	ab	105	40	21	15
149 Mauritania	27.8	133	56	59.8	212	91	47.5	1.77		129	9.4		
	27.4		55	69.6	149	87	15.6	125	58	91	=+	41	**
150 Bangladesh	27.4	150	20										

Female

25 Gender gaps in education

in education		Female adul	t		nale prin t enrolm			ale seco et enrolm		Fer	male terti		Female tertiary science enrolment (as % of female of tertiary students) 1995  100 111 9 17 15 3 21 8 11 31
		literacy	As % of	Ratio (as % of	Index	As % of	Ratio (as % of	Index	As % of	Per	students		(as % of
HDI rank	(%) 1997	Index (1985 = 100) 1997	male rate 1997	relevant age group) 1997	(1985 = 100) 1997	male ratio 1997	relevant age group) 1997	(1985 = 100) 1997	male ratio 1997	<b>100,000 women</b> 1996	(1985 = 100) 1996	As % of males 1996	tertiary students)*
151 Zambia	67.5	127	81	71.7	84	98	34.9	104	71				
152 Haiti	43.4	135	90	19.9	39	105	33.2	75	95				
153 Senegal	24.8	165	56	53.6	136	82	15.5	120	65	-4.6	4	**	61
154 Côte d'Ivoire	33.7	191	66	50.3	114	76	23.6	84	53	**	46	**	
155 Benin	20.9	165	44	50.4	140	59	18.3	104	48	0.4	124	22	
156 Tanzania II Ron of							10.3	104	40	94	134	23	11
156 Tanzania, U. Rep. of 157 Djibouti	62.0	146	76	48.0	85	102	64	9-9	84	14	233	19	9
158 Uganda	35.0	155	56	27.4	104	75	15.6	103	66	23	44	77	
159 Malawi	53.0	143	71	16	én	06	84	10	49	99	309	47	17
	43.4	137	60	99.7	244	102	53.9	211	59	34	179	41	15
160 Angola	40	16	944	34.1	70	97	28.0	73	82	,			
161 Guinea	23.9	173	46	33.2	189	58	6.9	73	31	24		45	
162 Chad	37.1	155	58	35.2	185	58	9.6	135	37		47	13	
163 Gambia	26.4	173	66	58.2	119	79	25.1	244	60	14	233	15	3
164 Rwanda	55.6	154	79	78.6	134	101			OU.	10	60	64	41
165 Central African Republic	30.1	191	53	37.8	80	69	12.7		P P	*			
166 Mali						03	12.7	68	50				
167 Eritrea	28.3	222	65	31.2	217	69	12.9	222	56	01	**	24	
	40.0	14	48	27.9	dro	91	34.3	12	83	22		13	
168 Guinea-Bissau	18.3	198	37	38.8	111	59	16.4	162	51	14	84		
169 Mozambique	25.0	172	44	34.3	73	76	17.1	74	62	19	380	31	
170 Burundi	36.1	169	67	32.9	93	86	14.1	155	70		**		
171 Burkina Faso	11.2	195	36	25.2	148	64	9.4	100					
172 Ethiopia	29.2	187	70	27.0	110	62		196	58	37	154	29	
173 Niger	7.2	188	33	18.5	108	61	17.5	109	55	24	100	24	11
174 Sierra Leone	20.0	179	42	38.8	88	79	6.5	163	53	0.0	10	84	
			-76	30.0	00	/3		0+	-	**	44	9.00	31
All developing countries	62.9	122	79	82 9	108	94	54.8	128	83				
Least developed countries	38.1	141	65	54.8	116	83	24.6	119					
Sub-Saharan Africa	49.6	144	75	51.8	101	85	35.8	111	66				
Arab States	46.4	150	66	82.1	113	91			76				
East Asia	75.4	121	83	99.8	113	100	56.8 66.4	130	85	1 287		74	3 1
East Asia (excluding China)	94.0	105	96	98.3	99	101		143	88	472	171	5 '	
South-East Asia and the Pacific	84 4	113	91	97.5	106	99	94.5	111	102	4,084	189	61	10
South Asia	38.6	137	59	72.1	116		56.9	*26	95				. 8
South Asia (excluding India)	36.2	144	60	76.1	134	86	460	135	70	526	149	ts*	
Latin America and the Caribbean	86.2	108	98	92.4	108	89	39.2	147	78		*		
Eastern Europe and the CIS		.,				98	65.8	116	101	,	**		3.
Industrialized countries			41	99.9	100					2,234		112	33
World	**	**			102	100	96 3	106	100	4,486	130	110	, ,
		**	**	85.2	107	95	60.8	119	87				

a. Data refer to enrolment in natural and applied sciences.

Source: Columns 1-3: calculated on the basis of data from UNESCO 1999a, columns 4 and 7-UNESCO 1999d, columns 5, 6, 8 and 9: calculated on the basis of data from UNESCO 1999d, column 10: UNESCO 1998a, column 13: UNESCO 1998a, column 14: UNESCO 1998a, column 15: UNESCO 19

b. Capped at 99.0%.

	Fema	ale economic activi	ity rate		Unemploy (%		*	Female . unpaid family
	Rate	(age 15+)	As % of	Tota (age 1		Yout (age 15		workers (as % of
HDI rank	(%) 1997	(1985 = 100) 1997	male rate 1997	Female 1997	Male 1997	Female 1997	Male 1997	total) 1990-97 <sup>5</sup>
High human development	41.2	119.0	71.5	8.3	7.1	16	15	44
1 Canada	47.9	122.7	81.4	9.2	9.4	16	18	74
2 Norway	47.1	123.5	83.8	4.3 °	4.0 °	11 <sup>d</sup>	10 d	63
3 United States	45.7	117.1	81.1	5.1 <sup>c</sup>	4.9 °	11 <sup>d</sup>	12 d	62
4 Japan	43.3	118.4	67.3	3.6	3.5	6	7	83
5 Belgium	32.9	123.8	65.3	11.6	7.1	26	18	86
		116.6	90.0	7.5	8.5	14 <sup>d</sup>	16 <sup>d</sup>	60
6 Sweden	51.2	129.5	75.4	8,2	8.8	15	17	58
7 Australia	43.6		65.5	7.2	4.4	10	9	82
8 Netherlands	36.9	148.2	83.2	4.4 <	3.3 °	7 d	8 d	4+
9 Iceland	50.9	117.4		5.8 4	8.2 °	11 4	16 <sup>d</sup>	72
10 United Kingdom	42.6	117.5	74.3					, 4
11 France	39.1	112.6	76.5	10.9	14.2	25	33	***
12 Switzerland	42.5	122.9	65.7	3.9	4.4	4	8	71
13 Finland	47.3	104.2	87.3	15.1	13.9	27	23	33
14 Germany	41.1	112.5	69.5	11.0	9.0	10	10	82
15 Denmark	51.2	111.2	84.7	6.5	4.6	10	7	95
			65.3	5.3	5.1	7	8	66
16 Austria	37.0	107.4					ah	90
17 Luxembourg	31.0	116.6	56.4	7.3	7.2	15	15	64
18 New Zealand	43.6	149.9	78.1		9.8	40	29	58
19 Italy	32,9	128.2	58.1	16.8	10.6	15	17	40
20 Ireland	27.7	132.6	50.8	10.4				
21 Spain	31.1	150.1	55.5	28.4 °	16.2 °	46 d	33 q	62
22 Singapore	39.4	120.5	64.8	44	94	ek	49-	75
23 Israel	34.1	135.0	66.9	44	64	14	40	77
24 Hong Kong, China (SAR)	39.9	113.3	62.5	**	48	49	t4	**
25 Brunei Darussalam	32.2	178.6	58.8	9.0	to.	BP.	**	44
23 Brutier Darussalaiti						86	11	97
26 Cyprus .	37.1	115.0	62.5	45.4	6.4	41	22	75
27 Greece	31.3	146.2	57.3	15.1	6.2	18	11	58
28 Portugal	42.4	119.8	71.9	7.9				14
29 Barbados	46.9	126.1	80.3	2.4	2.9	7	9	89
30 Korea, Rep. of	41,2	129.4	70.1	2.4	2.3	,	Ť	
31 Bahamas	49.2	134.2	85.1	**	11	àb	+1	72
	20.0	132.8	36.1	99	3.0	Ap	45	ii e
32 Malta	45.4	102.0	81.5	45-	10	44	91	62
33 Slovenia	25.9	145.7	47.5	44	19	40	44	48
34 Chile		224.3	49.9	eń	94	61	64	4
35 Kuwait	24.8			E 0	3.8	10	7	76
36 Czech Republic	51.3	107.9	86.2	5,8			80	
37 Bahrain	20,7	200.1	33.1	69	44			14
38 Antigua and Barbuda	84	94	н	40	49	dis.	**	55
39 Argentina	24.9	120.0	45.3	69	#4	14	45	68
40 Uruguay	36.2	151.1	66.2	44	**	645.	**	
	22.1	273.4	30.7	264	94	84	91	4
41 Qatar	22.1	112.8	86.8	0.0	**	44	41	66
42 Slovakia	49,9	216.0	28.1	60	911	н	44	49
43 United Arab Emirates	18.9	99.0	81.4	13.5	9,8	28	22	56
44 Poland	45.5		44.4	**		49	**	36
45 Costa Rica .	24.1	165.5					ęs.	14
Medium human development	40.2	110.9	69.0	**	**	44	**	68
46 Trinidad and Tobago	30.6	123.9	56.3	7.7	9.5	15	17	72
47 Hungary	40.5	101.0	73.6			**	**	42
48 Venezuela	27.2	147.0	51.9	47	44	41	10	19
49 Panama	28.8	135.8	53.9	4.0	3.0	8	6	45
50 Mexico	25.7	146.6	47.0	4.9	5,0			

26 Gender gaps in economic activity

	Fem	ale economic activi	ity rate		Unemployment rate (%)					
	Rate	(age 15+)	As % of	Tot (age 1		You (age 15		family workers		
HDI rank	(%) 1997	(1985 = 100) 1997	male rate 1997	Female 1997	<b>Male</b> 1997	Female 1997	<b>Male</b> 1997	tas % of total)		
51 Saint Kitts and Nevis	60	68								
52 Grenada	4n	40		60	91	91	**	wi		
53 Dominica	Φu	49	mo.	60	80	fi-8	44	M MA		
54 Estonia	50.9	97.6	85.3	40	40	de de	***	50		
55 Croatia	39.9	108.6	73.1		eft	to	**	**		
56 Malaysia	30.5	116.9	60.6	-		C.h	010	74		
57 Colombia	32.1	185.2		***	10	no	to	71		
58 Cuba	37.8	155.3	60.2	•	80	60	110	70		
59 Mauritius	27.2	151.1	63.4	60	84	00	fire.			
60 Belarus	47.8		46.9	de	==	80	**	48		
		97.2	84.4	64	45	10	40	61		
61 Fiji	22.7	202.5	41.7	**	91					
62 Lithuania	46.9	94.9	82.6			40	==	21		
63 Bulgaria	47.8	102.1	88.6	_		-	20	01		
64 Suriname	· 23.8	153.8	47.9		40	10	ship.	8-1		
65 Libyan Arab Jamahiriya	13.0	106.2	30.2	-	**	80	010	42		
66 Seychelles				**		46.0	81			
67 Thailand	\$5.5	113.0		de	***	-	41	61		
68 Romania	41.5	112.0	86.3	to	14	re-	81	69		
69 Lebanon		93.5	77.6	**	84		50	67		
70 Samoa (Western)	19.2	152.6	38.7	41	60	03				
	40	ag	Det .			to.		31		
71 Russian Federation	48.1	96.1	83.6				49	U/ I		
72 Ecuador	20.7	160.3	37.6	-	44	**		**		
73 Macedonia, TFYR	38.3	122.4	71.0	49	Me	10	49	63		
74 Latvia	50.3	95.4	85.0	86	10	949	88	59		
75 Saint Vincent and the Grenadines	60)	40:			10	11	9-8	61		
76 Kazakhstan			40	80	40	00	00	42		
77 Philippines	43.7 31.4	100.9	82.7	ne .	_	NO.		91		
78 Saudi Arabia		114.3	60.8	**	sin-	50		56		
79 Brazil	10.6	216.6	21.1	Jan .	41	as as	7.5			
80 Peru	32.1	144.7	53.4	10		**	44	52		
	22.1	146.8	43.0	100			61	59		
81 Saint Lucia	dis	da				desp	ent.	23		
82 Jamaica	48.0	117.1	86.4	-	60	00	9.6			
83 Belize	15.7	123.8	30.9	PP .	100	nq.	#e	01		
84 Paraguay	22.0	111.6	42.4	40	40	79	04	13		
85 Georgia	43.6	93.2	79.8	99	90	qa	10	58		
86 Turkey	34,9			**	19	04	43	44		
87 Armenia	46.0	114.9	59.6	6.2	7.7	15	14	68		
88 Dominican Republic		105.2	88.3	1-4	**	1.0		DO		
89 Oman	26.1	140.8	44.1	No.	86	**	**			
90 Sri Lanka	8.7	214.0	20,4	64	10	65	40	shel		
	30.5	151.3	55,4	**	45	Rep	**			
91 Ukraine	45.6	93.3	81.9			6-9	**	53		
92 Uzbekistan	38.2	100.1	85.7	da	9 99	45	da	66		
93 Maldives	35,5	94.2	78.2	the .	848	da	dra	44		
94 Jordan	13.6	188.3	31.0	84	des	free	0.0	29		
95 Iran, Islamic Rep. of	15.8	127.1	35.6	60	89	44	qa	49		
96 Turkmenistan				der .	10	96	m.	44		
97 Kyrgyzstan	38.4	100.3	82.1	**	*1					
98 China	39.1	99.1	85.1		**	9-4				
	55.7	113.8	87.3	**		**	40	41		
99 Guyana	28.1	171.1	48.9	**		**		**		
00 Albania	41.5	114.9	73.0	**			**	.,		
					**	**	**	**		

26 Gender gaps in economic activity

activity	Famal	e economic activi	ing makes		Unemploy (%		_	Female unpaid family
		(age 15+)		Tota (age 1!		Your (age 15		workers (as % of
DI rank	(%) 1997	Index (1985 = 100) 1997	As % of male rate	Female 1997	<b>Male</b> 1997	Female 1997	<b>Male</b> 1997	total) 1990-97 b
		111.0	59.4		90	<b>51</b>	98	
101 South Africa	29.4	111.9	46.1	64	9 °	н	14	49
102 Tunisia	24.1	119.8	76.2		61	II.	***	44
103 Azerbaijan	37.9	92.9	86.4	p-a		ē5	44	40
104 Moldova, Rep. of	45.9	92.2	66.9	49		āb	94	71
105 Indonesia	37.9	136.9	00.3	**	49	-		54
106 Cape Verde	29.5	143.0	56.8	top	44	11	41	30
107 El Salvador	28.9	162.8	52.3	94	48	40	86.	
108 Tajikistan	33.7	93.0	78.7	es.	40	10	**	6
	16.9	153.0	36.0	40	80.	pt	411	
109 Algena 110 Viet Nam	49.4	111.2	93.9	14	40	91	4.0	en
			36.5		**	41	80	48
111 Syrian Arab Republic	16.3	119.5	59.3	14		et et	**	62
112 Bolivia	30.1	121.8		PP PP		mé	27	60
113 Swaziland	26.1	110.3	55.5	410		-	94	31
114 Honduras	22.7	133.3	45.1	34	49	84	45	69
115 Namibia	33.5	97.6	68.1	94	61			
		49	41	pa .	~	94	Ħ	13
116 Vanuatu	20.1	129.4	38.7	**	01	94	41	
117 Guatemala	49.4	98.5	92.8	20	51	20	44	d <sub>p</sub>
118 Solomon Islands	46.1	108.4	88.5	41	47	100	66	42
119 Mongolia		117.9	43.2	10	91	98	46	42
120 Egypt	22.2						AP	**
121 Nicaragua	27.3	145.6	53.2	49	64		4 198	35
122 Botswana	39.6	94.9	81.0	04	49	40	de	50
123 São Tomé and Principe	49	10	ly4	49	40	49	19	37
124 Gabon	40.9	88.3	78.3	, ED	8.0		61	50
125 Iraq	10.4	109.2	24.0	#4	940	ės.		
			53.1	44	46	64	81	39
126 Morocco	27.1	112.5	56.8	10	14	with	24	<i>4.4</i>
127 Lesotho	29.7	96.3	76.3	٠	nd.	**	21	.,
128 Myanmar	45.7	103.0	76.9	å0	-4	10	**	**
129 Papua New Guinea	42.5	98.5	78.8	44	419	49	•	**
130 Zimbabwe	40.7	102.9	10.0				**	**
131 Equatorial Guinea	29.2	94.4	53.6	10	10		,,	
132 India	29.0	95.0	50.3	+9	do.		**	
	47.3	98.8	100.9	110	84	**	14	47
133 Ghana	30.4	100.2	59.9	0.0	•	**	**	
134 Cameroon		100.5	73.3	40	41	10		
135 Congo	35.1		9E Q	26	**	γå	64	n#
136 Kenya	46.8	108.0	85.9	40	44	ei	D	33
137 Cambodia	52.3	93.9	101.3		- 46	r 196	10	
138 Pakistan	20.8	123.3		108	840	et	44	**
139 Comoros	39.1	98.8	75.9					
	39.7	99.0	72.4		+4			*1
Low human development	38.2		86.9	44	**	+4	4.9	
140 Lao People's Dem. Rep.	44.7	94.9	75.3	44	24	04	4*	
141 Congo, Dem. Rep. of the	36.0	92.9			49	94	46	40
142 Sudan	22.8	115.6	41.0		ga	84	#II	61
143 Togo	32.8	96.9	65.4		11	41	44	
144 Nepal	37.9	98.3	69.6		44	**	ęś.	11
145 Bhutan	38.8	94.7	66.7	89		63	all.	46
		95.7	55.8	646	68		н	
146 Nigeria	28.4	96.1	80.5	9.0	40		63	
147 Madagascar	41.8	97.9	39.0	4=	6.0	40	**	3
148 Yemen	17.8		76.6		p0	40	14	7
149 Mauritania	40.0	93.5	77.2	a»	at	10		
150 Bangladesh	44.4	107.8	7,000					

Female

26 Gender gaps in economic activity

	Fema	ale economic activi	ty rate		unpaid			
	-	(age 15+)		Tota (age 1)		You (age 15	workers	
HDI rank	(%) 1997	<b>Index</b> (1985 = 100) 1997	As % of male rate 1997	Female 1997	Male 1997	Female 1997	Male 1997	(as % of total) 1990-97 b
151 Zambia	37,3	100.4	80.0					54
152 Haiti	37.3	90.1	72.8		41	an	***	37
153 Senegal	38.1	98.3	74.3	==	**	40	Bry .	37
154 Côte d'Ivoire	26.8	101.4	51.1	60	44	40	60	A1
155 Benin	42.5	95.6	90.2	86	10	mo 80	60	51 40
156 Tanzania, U. Rep. of	50.1	99.8	95.2		49		***	
157 Djibouti	10	p#		20				22
158 Uganda	47.0	95.7	89.9	_	61	_		72
159 Malawi	46.7	94.6	93.6				80	
160 Angola	42.0	91.9	84.3	40	**		10	411
161 Guinea	45.3	93.5	90.5					,
162 Chad	42.4	99.5		0.5		**		
163 Gambia	45.2	99.4	78.3	and .	91	**	**	4+
164 Rwanda			79.8	14	ED	m	84	**
165 Central African Republic	51.5	103.8	93.2	10	46	49	0-0	53
•	43.9	90.1	82.5	-	00	dh	249	55
166 Mali	44.6	95.0	83.6	+=	ne	100	b en	53
167 Eritrea	47.0	97.9	88.8	60	24	89	41	Pa .
168 Guinea-Bissau	37.4	95.2	65.7	10	pro.	19	70	E)
169 Mozambique	49.7	93.2	91.6	66	100		88	11
170 Burundi	51.3	96.5	91.5	nþ	m		41	60
171 Burkina Faso	46.4	90.0	86.8					66
172 Ethiopla	35.6	94.7	69.7			00	**	
173 Niger	41.4	94.5	77.6		A4	4+	40	24
174 Sierra Leone	26.6	98.9	55.2	40	de de	60	40	74
All developing countries	39.3	111.3	68.0	,,		7+		
Least developed countries	41.1	99.7	76.5		**			
Sub-Saharan Africa	37.8	97.7	73.9		**			
Arab States	19 2	123.7	38.6	,				
East Asia	55.1	114.2	86.6			·		
East Asia (excluding China)	41.2	126.1	69.7					
South-East Asia and the Pacific	41.7	118.6	74.1			**		
South Asia	29.1	99.4	51.7			•		
South Asia (excluding India)	29.5	114.2	55.9					
Latin America and the Caribbean	28.8	140.0	51.3	*	"			
Eastern Europe and the CIS	45.6	97.3	82 4		**			
Industrialized countries	41.9	119.4	72.6	8.5	** C T*	1.5		
World	40.2	111.3	69.8	0.3	7.3	16	16	

a. Data refer to the number of unemployed divided by the labour force.

Female

b. Data refer to the most recent year available during the period specified in the column heading.

c. Data refer to the age group 16-64.

d. Data refer to the age group 16-24.

Source: Columns 1-3: calculated on the basis of data from ILO 1996; columns 4-7: OECD 1998b; column 8: ILO 1998.



Selected developing countries

Urban

Colombia

Indonesia

Vei ezcela

Average Rura

Bangladesh

Guatemala

Highlands

Mountains

Rural hills

Pr. pnes

Average National

Korea, Rep. of

A rip aranacted

lave pry courtnes

Kenya

Nepal

Kenya

Nepal

Year

1975-77

Time allocation (%) Burden of work Market Non-market Work time Total work time activities activities (minutes per day) Market Non-market Females as Males Males Females activities activities Females % of males **Females** Males 

untries							61	71	39
1992	443	443	100	44					29
	438	393	111	49					35
	429	430	100	52					21
		458	98	68					36
		410	105	51	49				
			111	45	55				38
			100	44	56				39
			99	51	49				26
			128	45	55	22			23
				35	65	19			48
	_			50	50	38			36
				51	49	37	68		32
				50	50	37	63	63	37
1985	453	420	100						-
	120	400	105	49	51	34	66	66	34
	1992 1992 1992 1987 1987/88 1985/86 1991/92 1991/92 1988/89 1987 1990/91 1985	1992 443 1992 438 1992 429 1987 449 1987/88 430 1985/86 429 1991/92 440 1991/92 375 1988/89 470 1987 377 1990/91 445 1985 413 1985 453	1992 443 443 1992 438 393 1992 429 430 1987 449 458 1987/88 430 410 1985/86 429 388 1991/92 440 441 1991/92 375 377 1988/89 470 367 1987 377 345 1990/91 445 412 1985 413 411 1985 453 428	1992       443       443       100         1992       438       393       111         1992       429       430       100         1987       449       458       98         1987/88       430       410       105         1985/86       429       388       111         1991/92       440       441       100         1991/92       375       377       99         1988/89       470       367       128         1987       377       345       109         1990/91       445       412       108         1985       413       411       100         1985       453       428       106	1992       443       443       100       44         1992       438       393       111       49         1992       429       430       100       52         1987       449       458       98       68         1987/88       430       410       105       51         1985/86       429       388       111       45         1991/92       440       441       100       44         1991/92       375       377       99       51         1988/89       470       367       128       45         1987       377       345       109       35         1990/91       445       412       108       50         1985       413       411       100       51         1985       453       428       106       50	1992       443       443       100       44       56         1992       438       393       111       49       51         1992       429       430       100       52       48         1987       449       458       98       68       32         1987/88       430       410       105       51       49         1985/86       429       388       111       45       55         1991/92       440       441       100       44       56         1991/92       375       377       99       51       49         1988/89       470       367       128       45       55         1987       377       345       109       35       65         1990/91       445       412       108       50       50         1985       413       411       100       51       49         1985       453       428       106       50       50	1992       443       443       100       44       56       28         1992       438       393       111       49       51       31         1992       429       430       100       52       48       39         1987       449       458       98       68       32       58         1987/88       430       410       105       51       49       39         1985/86       429       388       111       45       55       30         1991/92       440       441       100       44       56       30         1991/92       375       377       99       51       49       29         1988/89       470       367       128       45       55       22         1987       377       345       109       35       65       19         1990/91       445       412       108       50       50       38         1985       413       411       100       51       49       37         1985       453       428       106       50       50       37	1992	1992

Note: Market activities refer to market oriented production activibes as defined by the 1993 revised UN System of National Accounts.

Source: UNDP 1995.

inoustralized countries

28 Gender gaps n political partici

				Women in government					
	Year wome	n received right	Year first woman elected (E) or nominated (N)	At all levels <sup>b</sup> (%)	At ministerial level <sup>b</sup> (%)	At sub- ministerial level <sup>b</sup> (%)			
IDI rank	To vote a	for elections a	to parliament	1996	1996	1996			
High human development			44	46	**				
1 Canada	1950	1960	1921 E	17.7	18.5	17.6			
2 Norway	1913	1913	1911 N	24.1	28.6	22.7			
3 United States	1920	1788	1917 E	33.1	14.3	34.5			
	1947	1947	1946 E	9.3	5.9	10.1			
4 Japan	1948	1948	1921 N	6.6	11.1	4.6			
5 Belgium									
6 Sweden	1921	1921	1921 E	30.8	38.1	27.3			
7 Australia	1962	1962	1943 E	22.6	14.7	25.9			
8 Netherlands	1919	1917	1918 E	16.7	23.5	14.3			
9 Iceland	1915	1915	1922 E	8.2	15.4	6.7			
10 United Kingdom	1928	1928	1918 E	6.9	8.3	6.6			
	1944	1944	1945 E	10.8	14.7	9.7			
11 France			1971 E	7.1	15.4	5.9			
12 Switzerland	1971	1971							
13 Finland	1906	1906	1907 E	20.4	36.4	15.5			
14 Germany	1918	1918	1919 E	6.1	10.7	5.3			
15 Denmark	1915	1915	1918 E	13.9	29.2	10.3			
16 Austria	1918	1918	1919 E	6.8	23.5	4.0			
17 Luxembourg	1919	1919	1919	17.8	28.6	12.9			
18 New Zealand	1893	1919	1933 E	26.4	9.1	28.9			
19 Italy	1945	1945	· 1946 E	7.1	3.6	8.2			
						8.4			
20 Ireland	1928	1928	1918 E	11.7	21.4	0.4			
21 Spain	1931	1931	1931 E	15.4	16.7	15.1			
22 Singapore	1947	1947	1963 E	7.2	0.0	9.6			
23 Israel	1948	1948	1949 E	10.6	13.0	9.7			
24 Hong Kong, China (SAR)	vel	_	40	100	24				
25 Brunei Darussalam	_ t	_ c	_ c	2.3	0.0	16.7			
0.0	4000								
26 Cyprus	1960	1960	1963 E	5,3	7.7	4.0			
27 Greece	1952	1952	1952 E	8.9	0.0	13.2			
28 Portugal	1976	1976	1934 E	17.1	11.5	18.1			
29 8arbados	1950	1950	1966 N	25.5	30.8	23.5			
30 Korea, Rep. of	1948	1948	1948 E	1.0	3.0	0.6			
31 Bahamas	1964	1964	1977 N	30.3	18.8	34.0			
32 Malta	1947	1947				3.9			
33 Slovenia	1945		1966 E	3.0	0.0				
34 Chile		1945	1992 E	16.9	9.1	19.7			
	1949 _ c	1949	1951 E	10.3	14.3	8.5			
35 Kuwait		_ c	_ 6	4.9	0.0	6.7			
36 Czech Republic	1920	1920	1992 E	10.6	0.0	12.6			
37 Bahrain	1973 t	1973 †	46	0.0	0.0	0.0			
38 Antigua and Barbuda	1951	1951	1984 N	26,7	0.0	42.1			
39 Argentina	1947	1947	1951 E	5.2	0.0	5.6			
40 Uruguay	1932	1932	1942 E	13.7	6.7	16.7			
41 Qatar		_ c	C	0.0	0.0	0.0			
42 Slovakia	1920	1920	1992 E	15.6	15.0	15.7			
43 United Arab Emirates	1997 t	1997 †	_ d	0.0	0.0	0.0			
44 Poland	1918	1918	1919 E	9.8	8.3	10.1			
45 Costa Rica	1949	1949	1953 E	27.2	11.1	35.2			
edium human development	A THE CAMPAGE	of the state of the track	THE PROPERTY OF	and the second second		10 , y - 12 - 18			
16 Trinidad and Tobago	1946	1946	1962 E+N	13,8	16.0	12.5			
_	1953	1958	1945 E	6.9		7.1			
47 Hungary	1946	1946	1945 E		5.6	17.9			
48 Venezuela				14.5	11.1				
49 Panama	1946	1946	1946 E	9.4	16.7	6.5 5.9			
50 Mexico	1947	1953	1952 N	7.5	15.8	5, 0			

					Nomen in governme	it	
	Year wome	n received right	Year first woman elected (E) or	At all levels b	At ministerial level <sup>b</sup>	At sub- ministerial level <sup>b</sup>	
DI rank	To stand To vote * for elections		nominated (N) to parliament	(%) 1996	(%) 1996	(%) 1996	
51 Saint Kitts and Nevis	1951	1951	1984 E	16.7	0,0	25.0	
52 Grenada	1951	1951	1976 E + N	22.5	21.4	23.1	
53 Dominica	1951	1951	1980 E	25.0	18.2	26.5	
	1918	1918	1919 E	14.3	0.0	16.8	
54 Estonia 55 Croatia	1945	1945	1992 E	19.0	11.5	21.1	
55 Croatio							
56 Malaysia	1957	1957	1959 E	8.1	6.1	9.0	
57 Colombia	1954	1954	1954 N	20.5	12.5	22.6	
58 Cuba	1934	1934	1940 E	9.1	2.7	11.9	
59 Mauritius	1956	1956	1976 E	9.8	0.0	12.6	
60 Belarus	1919	1919	1990 E	6.6	5.3	7.0	
61 Fiji	1963	1963	1970 N	14.5	4.8	18.2	
62 Lithuania	1921	1921	1920 N	7.3	0.0	6.8	
63 Bulgaria	1944	1944	1945 E	14,6	4.8	16.2	
64 Suriname	1948	1948	1975 E	11.3	0.0	17.6	
65 Libyan Arab Jamahiriya	1964	1964	_ t	3.4	4.5	0.0	
66 Seychelles	1948	1948	1976 E+N	20.8	33.3	18.3	
67 Thailand	1932	1932	1948 N	2.1	0.0	2.6	
68 Romania	1946	1946	1946 E	3.3	0.0	4,1	
69 Lebanon	1952	1952	1991 N	0.0	0.0	0.0	
70 Samoa (Western)	1990	1990	1976 N	9.1	7.7	9.5	
71 Russian Federation	1918	1918	1993 E	2.6	2.4	2.6	
72 Ecuador	1967	1967	1956 E	3.4	6.2	2.8	
73 Macedonia, TFYR	1946	1946	1990 E	20.0	8.7	25.0	
74 Latvia	1918	1918	t	17.6	11.1	19.0	
75 Saint Vincent and the Grenadines	1951	1951	1979 E	19.2	20.0	18.8	
			1990 E	2.1	2.6	1.7	
76 Kazakhstan	1993	1993	1941 E	22.8	4.5	25.3	
77 Philippines	1937	1937	1941 E c	0.0	0.0	0.0	
78 Saudi Arabia	_ c	_ c		13.7	4.3	15.1	
79 Brazil	1934	1934	1933 E	13.2	5.6	15.5	
80 Peru	1955	1955	. 1956 E				
81 Saint Lucia	1924	1924	1979 N	5.0	9,1	0.0	
82 Jamaica	1944	1944	1944 E	14.3	5.6	18.4	
83 Belize	1954	1954	1984 E + N	6.0	0.0	8.8	
84 Paraguay	1961	1961	1963 E	4.3	6.7	3.7	
85 Georgia	1921	1921	1992 E	3.4	0.0	4.7	
		1934	1935 N	5.0	2.9	5.6	
86 Turkey	1930		1990 E	2.1	0.0	2.9	
87 Armenia	1921	1921	1942 E	9.8	4.0	11.9	
88 Dominican Republic	1942	1942	_ [	3.6	0.0	4.1	
89 Oman	- 5		1947 E	10.2	13.0	9.6	
90 Sri Lanka	1931	1931				2.2	
91 Ukraine	1919	1919	1990 E	1.7	0.0	0,0	
92 Uzbekistan	1938	1938	1990 E	1,3	2.6	14.1	
93 Maldives	1932	1932	1979 E	13.0	5.6	0.0	
94 Jordan	1974	1974	1989 N	3.4	6.1		
95 Iran, Islamic Rep. of	1963	1963	1963 E + N	0.4	0.0	0.5	
		1927	1990 E	2.2	3.1	0.0	
96 Turkmenistan	1927	1918	1990 E	11.4	10,5	12.0	
97 Kyrgyzstan	1918	1949	1954 E	4.3	6.1	3.9	
98 China	1949		1968 E	14.6	5.6	20.0	
99 Guyana	1953	1945	1945 E	11.8	5.3	14.0	
100 Albania	1920	1920	(342 C				

28 Gender gaps in political participation

					Vomen in governmen		
	Year women	received right	Year first woman elected (E) or	At ail levels <sup>b</sup>	At ministerial level <sup>b</sup>	At sub- ministerial level <sup>b</sup>	
o 1.	To vote a	To stand for elections a	nominated (N) to parliament	(%) 1996	(%) 1996	(%) 1996	
ol rank	10 vote	for ciccions					
101 South Africa	1930	1930	1933 E	7.0	1.0	7.5	
102 Tunisia	1959	1959	1959 E	7.9	2.9	10.9	
103 Azerbaijan	1921	1921	1990 E	7.1	7.7	6.9	
104 Moldova, Rep. of	1993	1993	1990 E	4.3	0.6	7.0	
105 Indonesia	1945	1945	1950 N	1.9	3.6	1.6	
	1975	1975	1975 E	11.1	13.3	8.3	
106 Cape Verde	1939	1961	1961 E	26.8	6.2	27.0	
107 El Salvador		1924	1990 E	3.8	3.7	3.9	
108 Tajikistan	1924	1962	1962 N	4.8	0.0	8.3	
109 Algeria	1962 1946	1946	1976 E	5.3	7.0	4.4	
110 Viet Nam						1.7	
111 Syrian Arab Republic	1953	1953	1973 E	3.9	6.8	8.3	
112 Bolivia	1952	1952	1966 E	7.3	0.0	13.6	
113 Swaziland	1968	1968	1972 E + N	7.5	0.0	15.9	
114 Honduras	1955	1955	1957	14.1	10.0		
115 Namibia	1989	1989	1989 E	11.4	8.7	12.3	
116 Vanuatu	1975	1975	1987 E	0.0	0.0	0.0	
117 Guatemala	1946	1946	1956 E	16.7	13.3	22.2	
118 Solomon islands	1974 t	1974 t	1993 E	0.0	0.0	0.0	
119 Mongolia	1924	1924	1951 E	1.7	0.0	2.6	
120 Egypt	1956	1956	1957 E	4.0	3.1	4.5	
120 Egypt				17.4	15.8	17.9	
121 Nicaragua	1955	1955	1972 E	17.4	7.7	15.4	
122 Botswana	1965	1965	1979 E	13.5	0.0	16.7	
123 São Tomé and Principe	1975	1975	1975 E	7,7 7.7	3.3	11.4	
124 Gabon	1956	1956	1961 E	0.0	0.0	0.0	
125 Iraq	1980	1980	1980 E		0.0		
126 Morocco	1963	1963	1993 E	0.9	0.0	1.4	
127 Lesotho	1965	1965	1965 N	14.6	0.0	18.2	
128 Myanmar	1935	1946	1947 E	0.0	0.0	0.0	
129 Papua New Guinea	1964	1963 †	1977 E	4.3	0.0	7.0	
130 Zimbabwe	1957	1978	1980 E + N	11.6	8.3	14.0	
131 Equatonal Guinea	1963	1963	1968 E	4.9	4.8	5.0	
132 India	1950	1950	1952 E	5.8	3.2	6.2	
133 Ghana	1954	1954	1960 N†	9.6	10,3	9.4	
134 Cameroon	1946	1946	1960 E	4.5	2.6	5.3	
135 Congo	1963	1963	1963 E	6.5	7.4	5.3	
						<b>6</b> .6	
136 Kenya	1963	1963	1969 E + N	5.8	3.4	3.1	
137 Cambodia	1955	1955	1958 E	2.4	0.0	2,2	
138 Pakistan	1947	1947	1973 E	2.6 2.7	4.0 6.2	0.0	
139 Comoros	1956	1956	1993 E	6.1	0.2	0.0	
Low human development	*1	**	**	**		D	
140 Lao People's Dem. Rep.	1958	1958	1958 E	3.7	0.0	6.4	
141 Congo, Dem. Rep. of the	1967	1970	1970 E	3.4	8.0	0.0	
142 Sudan	1964	1964	1964 E	1.7	2.4	1.3	
143 Togo	1945	1945	1961 E	3.0	4.3	0.0	
144 Nepai	1951	1951	1952 N	0.0	00	0.0	
145 Bhutan	1953	1953	1975 E	5.3	12.5	0.0	
						5.6	
146 Nigeria	1958 †	1958 †	_ °	6.2	7.7	3.3	
147 Madagascar	1959	1959	1965 E	1.8	0.0	0.0	
148 Yemen	1967	1967	1990 E †	0.0	0.0	5.9	
149 Mauritania	1961	1961	1975 E	5.4	3.6	0.0	
150 Bangladesh	1972	1972	1973 E	1.9	7.7	0.0	

				Worker in government				
	Year women	n received right	Year first woman elected (E) or	At all levels b	At ministerial level <sup>b</sup>	At sub- ministerial level <sup>b</sup>		
Dt rank	To vote a	To stand for elections <sup>a</sup>	nominated (N) to parliament	(%) 1996	(%) 1996	(%) 1996		
151 Zambia 152 Haiti 153 Senegal 154 Côte d'Ivoire	1962 1950 1945 1952	1962 1950 1945 1952	1964 E + N 1961 E 1963 E 1965 E 1979 E	8.4 22.2 5.6 7.1 14.9	7.7 29.4 6.7 8.3 19.0	8.6 15.8 4.2 6.8 13.3		
155 Benin 156 Tanzania, U. Rep. of 157 Djibouti 158 Uganda 159 Malawi 160 Angola	1956 1959 1946 1962 1961 1975	1956 1959 1986 1962 1961 1975	1979 E _ d 1962 N 1964 E 1980 E	9.6 0.9 8.9 4.3 4.9	10.5 0.0 10.7 3.6 10.7	8.9 1.0 8.1 4.7		
161 Guinea 162 Chad 163 Gambia 164 Rwanda 165 Central African Republic	1958 1958 1960 1961 1986	1958 1958 1960 1961 1986	1963 E 1962 E 1982 E† 1965 † 1987 E	13.0 4.3 18.9 10.7 4.9	15.0 8.7 18.8 8.3 8.0	11.5 0.0 19.0 12.5 2.4		
166 Mali 167 Eritrea 168 Gumea-Bissau 169 Mozambique 170 Burundi	1956 1955 † 1977 1975 1961	1956 1955 † 1977 1975 1961	1964 E 1994 E 1972 N 1977 E 1982 E	6.2 7.8 11.9 12.8 5.4	10.0 18.8 8.0 4.0 10.3	0.0 4.2 13.2 14.7 0.0		
171 Burkina Faso 172 Ethiopia 173 Niger 174 Sierra Leone	1958 1955 1948 1961	1958 1955 1948 1961	1978 E 1957 E 1989 E	11.5 8.9 10.9 5.9	9.1 6.7 14.3 3.8	9.6 10.0 6.5		

Women in government

a. Refers to year in which right to election or representation on a universal and equal basis was recognized. In some countries confirmation and constitutional rights came later. b. Including elected heads of state and governors of central banks. For countries for which the value is zero, no female ministers were reported by the United Nations Division for the Advancement of Women; this information could not be reconfirmed by the Human Development Report Office.

c. Women's right to vote and to stand for election has not been recognized.

d. The country has not yet elected or nominated a woman to the national parliament.

e. Exact date when a woman was first elected or nominated to parliament is not available.

f. Refers to the former People's Democratic Republic of Yemen.

Source: Columns 1-3: IPU 1999b; columns 4-6: UN 1996a.

	29 Status of selected international internat	International covenant on economic, social and cultural rights 1966	International covenant on civil and political rights 1966	International convention on the elimination of all forms of racial discrimination 1966	Convention on the prevention and punish- ment of the crime of genocide 1948	Convention on the rights of the child 1989	Convention on the elimination of all forms of discrimination against women 1979	Convention against torture and other cruel, inhuman or degrading treatment or punishment 1984	Convention relating to the status of refugees 1951
	Afghanistan	•	•	•		•	0	•	
	Albania Algeria Andorra	•	•	•	•	•	•	•	•
	Angola	•	•			•	•		•
	Antigua and Barbuda Argentina								•
	Armenia	•		•		•		•	•
	Australia	•	•		•	•	•	•	•
	Austria	•	•	•					
	Azerbaijan Bahamas	•	•					•	•
	Bahrain			•		•		•	
	Bangladesh Barbados	•		•	•	•	•	•	
	Belarus								
	Belgium							0	•
	Belize		•		•	•	•	•	•
	Benin Bhutan	•	•	0		•	•	•	•
	Bolivia Bosnia and Herzegovina	•	•	•	0	•	•	0	•
	Botswana		•		•			•	
	Brazil Brunei Darussalam	•	•	•	•	•	•	•	•
	Bulgaria	•	•	•			•		•
	Burkina Faso Burundi	•	•	•	•	•	•	•	•
	Cambodia							•	
45	Cameroon	•	•	•		•	•	•	•
1	Canada	•		•	•		•	•	•
	Cape Verde Central African Republic			•		•	•	•	
	Chad			•					
	Chile	•	•	•	•	•	•		•
	China	0	0	•		•	•		•
	Colombia Comoros	•	•	•	• .	•	•	. •	•
	Congo	•	•	•					•
(	Congo, Dem. Rep. of the	•	•	•	•		•		•
	Cook Islands	_				•			
	Costa Rica Côte d'Ivoire		•	•	•	•	•	•	•
	iroatia								
	uba				•	•	•	•	
	yprus	•			•			•	•
	zech Republic	•	•	•	•	•	•	•	•
	enmark ibouti		•	•	•			•	
-1	ominica								

29 Status of selected international human rights instruments	International covenant on economic, social and cultural rights 1966	International covenant on civil and political rights 1966	International convention on the elimination of all forms of racial discrimination 1966	Convention on the prevention and punish- ment of the crime of genocide 1948	Convention on the rights of the child 1989	Convention on the elimination of all forms of discrimination against women 1979	Convention against torture and other cruel, inhuman or degrading treatment or punishment 1984	Convention relating to the status of refugees 1951
Dominican Republic Ecuador Egypt El Salvador Equatorial Guinea	•	•	•	•			•	
Eritrea Estonia Ethiopia Fiji Finland	:	•	:	•			•	•
France Gabon Gambia Georgia Germany	•	•	•				0	•
Ghana Greece Grenada Guatemala Guinea	•	•	• • •	•			:	•
Guinea-Bissau Guyana Haiti Holy See Honduras	:	:	•	•		•	•	
Hungary Iceland India Indonesia Iran, Islamic Rep. of		•	•	•			0	
Iraq Ireland Israel Italy Jamaica		•	• • •	•			•	,
Japan Jordan Kazakhstan Kenya Kiribati	•	•	•	•	•		•	•
Korea, Dern. People's Rep. of Korea, Rep. of Kuwait Kyrgyzstan				•	•		•	•
Lao People's Dem. Rep. Latvia Lebanon Lesotho Liberia	•	•			•	•	•	•

	29 Status of selected international human rights instruments	International covenant on economic, social and cultural rights 1966	International covenant on civil and political rights 1966	International convention on the elimination of all forms of racial discrimination 1966	Convention on the prevention and punish- ment of the crime of genocide 1948	Convention on the rights of the child 1989	Convention on the elimination of all forms of discrimination against women 1979	Convention against torture and other cruel, inhuman or degrading treatment or punishment 1984	Convention relating to the status of refugees
	Liechtenstein	•			•	•	•	•	•
	Lithuania Luxembourg	•	•		•	•	•		•
	Macedonia, TFYR								•
	Madagascar	. •	•	•		•			•
	Malawi	•		•		•		•	•
	Malaysia Maldives				•	•	•		
	Mail								
	Malta	•	•	•		•	•		•
	Marshall Islands					•			
	Mauritania Mauritius			•		•			
	Mexico								
	Micronesia, Fed. States of					•	_		
	Moldova, Rep. of	•	•		•	•		•	
	Monaco Mongolia	•	•	•	•	•		•	
	Morocco					•	•		
	Mozambique			•				•	
	Myanmar			•	•				
	Namibia Nauru	•	•	•		•	•	•	•
	Nepal					•			
	Netherlands	•	•	•					
	New Zealand	•	•						
	Nicaragua	•		•	0	•	•	0	•
1	Niger Nigeria		•	•		•			•
1	Niue	•	•	•			•	0	•
1	Norway	•							
7	Oman Pakistan					•	•	•	
	Palau			•		•	•		
	Panama	•	•	•					
	Papua New Guinea			•				•	
	Paraguay	•	•		0	•			
	Peru Philippines		•	•	•	•	•		•
	Poland	•	•					•	•
1	Portugal	•	•						
	Qatar			•	•	•		•	
	Romania tussian Federation	•	•	•	•	•	•	•	•
	wanda						•	•	•
	aint Kitts and Nevis								
Sa	aint Lucia	7		•					
	aint Vincent and the Grenadines	•	•	•	•	•	•		•
Sa	moa (Western) n Marino					•	•		•

29 Status of selected international human rights instruments	International covenant on economic, social and cultural rights 1966	International covenant on civil and political rights 1966	International convention on the elimination of all forms of racial discrimination	Convention on the prevention and punish- ment of the crime of genocide 1948	Convention on the rights of the child 1989	Convention on the elimination of all forms of discrimination against women 1979	Convention against torture and other cruel, inhuman or degrading treatment or punishment 1984	Convention relating to the status of refugees 1951
São Tomé and Principe	0	0			•	0		•
Saudi Arabia	Ü			•	•		•	
Senegal	•	•	•	•	•	•	•	
Seychelles	•	•	•	•	•		0	
Sierra Leone	•	•	•		•			
Singapore		_		•	•	•		
Slovakia	•	•	•					
Slovenia Solomon Islands		•		_	•	_		•
Somalia					_		•	•
						•	•	•
South Africa					•	•	•	•
Spain Sri Lanka			•	•	•	•	•	
Sudan	•	•	•		•		0	•
Suriname	•	•	•		•	•		•
Swaziland			•		•		_	_
Sweden	•	•	•	•	•	•	•	
Switzerland	•	•	•		•	•	•	•
Syrian Arab Republic		•		•			•	•
Taşıkıstan	•	•	•		•		_	
Tanzania, U. Rep. of	•	•	•	•				
Thailand		•					•	•
Togo	•	•			•			
Tonga Trinidad and Tobago		•	•		•	•		
				•	•	•	•	•
Tunisia		•	C		•	•	•	•
Turkey			•		•	•		•
Turkmenistan					•			•

Yugoslavia Zambia Zimbabwe				•		•	•	•
Total states parties	141	144	153	129	191	163	111	133
Signatures not followed by ratification	5	3	5	3	1	3	10	0
States that have not ratified and signed	47	46	35	61	1	27	72	60

0

Note. Status as of 1 February 1999.

Source, UN 1999c.

Tuvalu Uganda Ukraine

United Arab Emirates
United Kingdom

United States Uruguay Uzbekistan Vanuatu Venezuela Viet Nam Yemen

Ratification, accession, approval, notification or succession, acceptance or definitive signature.

O Signature not yet followed by ratification.

countries		Infant Under-five Life mortality mortality Adult GNP		NP	Daily	Population without access to	Refugees by				
	Total population (thousands)	expectancy at birth (years) 1997	(per 1,000 live births) 1997	(per 1,000 live births) 1997	Total fertility rate 1997	fiteracy rate (%) 1997	Total (US\$ millions) 1997	Per capita (US\$) 1997	capita supply of calories 1996		country of origin thousands)
Afghanistan	20,893	45.5	165	257	6.0	20.0					
Andorra	70	*9.3,3			6.9	33.4	4,141 6	250 b	1,676	88	2,647.6
Bosnia and Herzegovina		200.00	5	6	ther	10	41	84	94	try	21
Korea, Dem. People's Rep. of	3,520	73.3	14	16	1.4	611	845	20	2,277		391,2
Liberia	22,981	72.2	23	30	2.1	40	-	10	2,271	19	**
	2,402	47.3	157	235	6.3	48.4	1,120 4	490 c	2,161	54	486.7
Liechtenstein	32	-	6	7	-		44				400.7
Marshall Islands	58	10	63	92		rel .	97	1,610	86	10	
Micronesia, Fed. States of	112	46	20	24			213		ber	18	
Monaco	33	10	5	5	-	44	613	1,910	***	78	
Palau	18		28		10	4+	41	w to	66	41	
San Marino	26	94		34	* **	64	149 4	11,220 d	=	12	M M
Somalia		47.0	5	6	44	10	94	10	dte	4=	94
Yugoslavia	8,821	47.0	125	211	7.3	50	961 *	210 *	1,532	74	524.4
Tugosono	10,628	72.8	18	21	1.8	,			3,101	74	1,617

Note. The table presents data for countries not included in the main indicator tables,

Source Columns 1, 2 and 5. UN 1998h, columns 3, 4 and 10. UNICEF 1999a, column 6 calculated on the basis of data from UNESCO 1999a, columns 7 and 8. World Bank 1999b, column 9.15 + 1948. Jumn

a. Data refer to the most recent year available during the period specified in the column heading.

b. Data refer to 1981.

c. Data refer to 1987.

d. Data refer to 1984.

e. Data refer to 1990.

The Human Development Report has presented data on broad aspects of human development since its inception in 1990. This has required a wide array of statistics that reflect people's well-being and the opportunities that they actually enjoy.

This year's Report introduces important improvements in the selection, use and presentation of statistics. Greater attention has been paid to coordinating with international statistical bodies, to harmonizing the selection of indicators with data reported by them and to ensuring that the most up-to-date estimates have been used. In most cases the time lag between the reference date of key indicators and the date of the Report's release has been narrowed from three years to two.

For the first time the indicator tables are organized into categories to better reflect the different dimensions of human development: levels and trends of human development (including the composite indices—the HDI, GDI, GEM, HPI-1 and HPI-2), health and survival, education, economic resources, sustainability, human security and gender equality. Unlike in earlier years, data for developing and industrialized countries are presented together rather than in separate tables. In all but a few tables all countries are included, to ease comparisons across countries and across regions or country groups.

As a standard practice, this year's Report, like earlier ones, relies on national estimates reported by the United Nations and its agencies and by other internationally recognized organizations, and thus on a set of standardized and consistent data produced by these offices. The few exceptions in which data from other sources have been used are noted. This year's Report continues the practice of documenting as thoroughly as possible the international statistical sources used.

#### DATA STANDARDS AND METHODOLOGY

Even when standardized international sources are used, a number of problems remain for any user of statistical data. First, despite the considerable efforts of international organizations to collect, process and disseminate social and economic statistics and to standardize definitions and data collection methods, limitations remain in the coverage, consistency and comparability of data across time and countries. Second, significant shifts and breaks in statistical series can occur when statistical bodies and research institutions update or improve their estimates using new sources of data, such as censuses and surveys.

Such concerns arise in preparing the human development index (HDI). For example, for the 1998 revision of the United Nations database World Population Prospects 1950-2050 (UN 1998h), released on 24 November 1998, the United Nations Population Division derived population estimates and projections from the most recently available population censuses-supplemented with information from national survey data—using specialized demographic techniques. It made significant adjustments to the 1996 revision to continue to incorporate the demographic impact of HIV/AIDS and to accommodate the extensive migratory movements within Europe and elsewhere and the rapid growth in the number of refugees in Africa and other parts of the world (UN 1998h).1 It also incorporated newly available data reflecting the continuing changes in the demographic profiles of countries in Eastern Europe and the Commonwealth of Independent States (CIS).

Changes in the population estimates have an effect on other indicators—such as adult literacy rates and enrolment ratios for different levels of schooling published by UNESCO. Thus readers must take into account the potential for fluctuation in both literacy rates and enrolment ratios when making comparisons across time and countries.

The adult literacy rates presented in this Report are new estimates from UNESCO's 1998 literacy assessment. They improve on results from the 1994 assessment used in earlier Reports by incorporating the 1998 revision of the United Nations population estimates and new literacy statistics collected through national population censuses, and through refinement of the estimation procedures.

The gross enrolment ratio is defined as the ratio of the number of children enrolled in a schooling level to the number of children in the relevant age group. The age group indicator depends on the estimates of age- and sex-specific populations published by the United Nations Population Division. Data on enrolment are affected by the methodology and timing used by the administrative registries, population censuses and education surveys at the national level. In addition, independent of the variations in population estimates and enrolment data, UNESCO may periodically revise the methodology used for its projections and estimations of enrolment.

Estimates of income used in the HDI are GDP converted to international dollars by using purchasing power parities (PPP) established by the World Bank, based on the results of surveys by the International Comparison Programme (ICP). Revision and updating of the PPP-based income estimates lead to fluctuations across time and country series. The real GDP per capita (PPP\$) estimates used in this year's Report integrate the 1997 results from the ICP. For some countries the new estimates differ considerably from earlier published estimates, largely because of the revised national currency-based estimates used to extrapolate the latest (1993) PPP estimates to the reference year (1997), because of new PPP estimates, or both. For countries not covered by the World Bank, PPP estimates provided by Alan Heston and Robert Summers (1999) of the University of Pennsylvania are used.

Another issue is uneven data availability and data quality across country groups. Some indicators-literacy, for example-are well documented in the developing countries but less so in the industrialized countries, or vice versa. Another example is crime data made available by the United Nations Crime Prevention and Criminal Justice Division through the Fifth United Nations Survey of Crime Trends and Operations of Criminal Justice Systems (1990-94). The availability and reliability of these crime data depend heavily on a country's law enforcement and reporting systems. In such cases the Report presents the limited data available, primarily from official national reporting systems and compiled by the United Nations, with the caveat that these data may not be readily used for international comparisons.

The transition in the countries of Eastern Europe and the CIS has led to a break in most of their statistical series, so the data available for recent years present problems of reliability, consistency and comparability at the international level and are often subject to revision.

The quality of data also suffers in countries in which there is a war or civil strife. Where the availability and quality of estimates have become extremely limited, reporting of the data in the *Human Development Report* has been interrupted, as for Afghanistan, the Democratic People's Republic of Korea, Liberia and Somalia. But other countries, such as Rwanda, have been reintroduced in the Report as data have become available.

# IMPROVING HUMAN DEVELOPMENT STATISTICS

A major goal of the Report is to encourage national governments, international bodies and policy-makers to improve statistical indicators of human development.

The importance of strengthening data collection and reporting to monitor progress in human development at the national and international levels cannot be overstated. As the frequent use of the symbol for unavailable data in the indicator tables in this Report demonstrates, there are many gaps in the coverage of human development data. Lack of data is a particular constraint in monitoring gender equality and poverty eradication. Coverage of the gender-related development index (GDI) is limited to 143 countries, the gender empowerment measure (GEM) to 102 countries and the human poverty index (HPI-1 and HPI-2) to 92 developing and 17 industrialized countries.

Reliable data are essential for assessing the progress towards national goals in poverty reduction, gender equality, environmental sustainability and many other priorities for human development. Internationally comparable series help national bodies compare achievements with progress in other countries. They aid in international monitoring of progress towards the goals of the global United Nations conferences. And they are necessary for policy analysis.

The Human Development Report team, in striving to overcome the shortcomings of data on important human development issues, has received valuable and generous assistance from many colleagues in international and national organizations. They have made special efforts to provide additional data and guidance in their fields of specialization, especially for the purpose of constructing time series and improving the consistency and comparability of human development indicators across countries.

#### COUNTRY CLASSIFICATION

The main criterion for classifying countries is the HDI. Countries are classified into three groups: high human development, with HDI values of 0.800 and above; medium human development, with HDI values of 0.500–0.799; and low human development, with HDI values below 0.500.

For analytical purposes and statistical convenience, aggregate measures of statistical indicators are calculated for three major groups of countries: all developing countries, Eastern Europe and the CIS, and industrialized countries. These designations do not necessarily express a judgement about the development stage reached by a particular country or area. Developing countries are further classified into the following regions: Arab States, East Asia, Latin America and the Caribbean (including Mexico), South Asia, South-East Asia and the Pacific, Southern Europe and Sub-Saharan Africa. This regional classification is consistent with the Regional Bureaux of UNDP. For analytical purposes, aggregate measures for East Asia and South Asia are also computed after excluding China and India because the magnitudes of their population, GDP and other measures overwhelm those of the smaller countries in the regions. Unless otherwise noted, aggregate measures for the world presented at the end of each indicator table reflect the aggregate for all the countries covered in this Report.

The term *country* as used in the text and tables refers, as appropriate, to territories or areas.

#### INDICATOR TABLES

In the indicator tables countries and areas are ranked in descending order by their HDI value. To locate a country in the tables, readers can refer to the key to countries, which lists countries alphabetically with their HDI rank.

Where estimates have been calculated using established international statistical series, the estimates are footnoted and the sources given in the notes at the end of each table. These notes also give the data sources for each column. The first source listed is the main international source for the indicator. The indicator tables no longer include estimates derived from sources other than the documented sources, except for table 1 (HDI). Short citations of sources are given, corresponding to the full references in the list of data sources used in preparing the indicator tables.

Not all countries have been included in the indicator tables, owing to lack of comparable data. For United Nations member countries not included in the main indicator tables, basic human development indicators are presented in table 30.

Unless otherwise stated, aggregate data for the human development and regional groups of countries are weighted by population subgroups or other appropriate indicators. Aggregates are not presented in cases where there were no data for the majority of countries in a group or appropriate weighting procedures were unavailable. Where appropriate, aggregate data are presented as the sum for the region rather than as a weighted average. To present a consistent set of aggregates, summary measures calculated for the variables used in the HDI for the universe of 174 countries, and in the GDI for the universe of 143 countries, have been used throughout the Report. For other indicators the summary measures presented have been calculated on the basis of the majority of countries for which data are available.

Unless otherwise indicated, multiyear averages of growth rates are expressed as compound annual rates of change. Year-to-year growth rates are expressed as annual percentage changes.

### NOTE ON STATISTICS IN THE HUMAN DEVELOPMENT REPORT

In the absence of the phrase annual, annual rate or growth rate, a dash between two years indicates that the data were collected during one of the years shown, such as 1993–97. A slash between two years indicates an average for the years shown, such as 1996/97. The following signs have been used:

- .. Data not available.
- (.) Less than half the unit shown.
- (..) Less than one-tenth the unit shown.
- < Less than.
- Not applicable.
- T Total.

### Note

1. The 1998 revision gives special attention to the demographic impact of HIV/AIDS in the population estimates and projections for developing countries with a population of at least one million and an adult HIV prevalence of 2% or more, or with very large populations of infected adults. The number of such countries covered has increased from 28 in the 1996 revision to 34 in the 1998 revision: Benin, Botswana, Brazil, Burkina Faso, Burundi, Cambodia, Cameroon, the Central African Republic, Chad, the Congo, the Democratic Republic of the Congo, Côte d'Ivoire, Eritrea, Ethiopia, Gabon, Guinea-Bissau, Haiti, India, Kenya, Lesotho, Liberia, Malawi, Mozambique, Namibia, Nigeria, Rwanda, Sierra Leone, South Africa, Thailand, Togo, Uganda, the United Republic of Tanzania, Zambia and Zimbabwe.

# Primary statistical references

- CDIAC (Carbon Dioxide Information Analysis Center).
  1999a. "CO<sub>2</sub> Emissions." [http://www.cdiac.esd.ornl.gov/ftp/ndp030/global96.ems]. February 1999.
- FAO (Food and Agriculture Organization of the United Nations). 1997. Correspondence on daily per capita calorie supply. July. Rome.
- 1998. "Daily Per Capita Supply of Calories." [http://www.fao.org/NEWS/1998/981204-e.htm]. February 1999.
- ——, 1999. "Food Balance Sheets." [http://www.apps.fao.org/lim500/nph-wrap.pl?FoodBalanceSheet&Domain=FoodBalanceSheet]. February 1999.
- Heston, Alan, and Robert Summers. 1999. Data on real GDP per capita (PPP\$). March. University of Pennsylvania, Department of Economics, Philadelphia.
- ITSS (International Institute for Strategic Studies). 1998. The Mulitary Balance 1998–99. London: Oxford University Press.
- IDEA (Institute for Democracy and Electoral Assistance).
  1997. Voter Turnout from 1945 to 1997: A Global Report. Stockholm.
- ILO (International Labour Office). 1995. World Labour Report 1995. Geneva.
- ——.1996. Estimates and Projections of the Economically Active Population, 1950–2010. 4th ed. Diskette. Geneva.
- ----- Various years. Yearbook of Labour Statistics. Geneva.
- International Federation of Red Cross and Red Crescent Societies. 1995. World Disasters Report 1995. Geneva.
- IPU (Inter-Parliamentary Union), 1999a. "Women in Parliaments." [http://www.ipu.org/wmn-e/classif.htm]. February 1999.
- ——. 1999b. Correspondence on date of latest elections, political parties represented and women's rights to vote and to stand for election. February. Geneva.
- ITU (International Telecommunication Union). 1997.
  World Telecommunication Indicators. Database.
  Geneva.

- Lipton, Michael. 1996. "Poverty-Basic and Annex Tables: Notes on Method." Background Paper for the Human Development Report 1997. United Nations Development Programme, Human Development Report Office, New York.
- Milanovic, Branko. 1998. Income, Inequality and Poverty during the Transition from Planned to Market Economy. Washington, DC: World Bank.
- Network Wizards. 1998a. "Internet Domain Survey July 1998." [http://www.nw.com]. March 1999.
- OECD (Organisation for Economic Co-operation and Development). 1997a. Education Policy Analysis. Paris.
- ——. 1997c. Environmental Data: Compendium 1997.
  Paris.
- \_\_\_\_\_.1998b. Employment Outlook. Paris.
- ——, 1999a. Development Co-operation 1998 Report.

  Development Assistance Committee Report. Paris.
- ——. 1999b. Geographical Distribution of Financial Flows to Aid Recipients. Paris.
- ——. Forthcoming. Environmental Data: Compendium 1999. Paris.
- Psacharopoulos, George, and Zafiris Tzannatos, eds. 1992.

  Case Studies on Women's Employment and Pay in

  Latin America. Washington, DC: World Bank.
- SIPRI (Stockholm International Peace Research Institute). 1998. SIPRI Yearbook 1998. New York: Oxford University Press.
- Smeeding, Timothy. 1997. "Financial Poverty in Developed Countries: The Evidence from the Luxembourg Income Study." Human Development Papers 1997: Poverty and Human Development. New York: United Nations Development Programme.
- Standard & Poor's. 1999. Email correspondence on sovereign ratings history. 9 March.
- UN (United Nations). 1993. "Statistical Chart on World Families." Statistics Division and the Secretariat for the International Year of the Family. New York.
- ------. 1994. Women's Indicators and Statistics Database.

  Version 3. CD-ROM. Statistics Division. New York.

- ——. 1996b. World Urbanization Prospects: The 1996 Revision. Database. Population Division. New York.
- -----. 1997a. Energy Statistics Yearbook 1995. New York.
- 1998c. Energy Statistics Yearbook 1996. New York.
- ——. 1998h. World Population Prospects 1950–2050: The 1998 Revision. Database. Population Division. New York.
- and Operations of Criminal Justice Systems. United Nations Office at Vienna, Crime Prevention and Criminal Justice Division. Vienna. [http://www.ifs.univie.ac.at/-uncjin/wcs]. March 1999.
- UNAIDS (Joint United Nations Programme on HIV/AIDS)
  and WHO (World Health Organization). 1998b. Report
  on the Global HIV/AIDS Epidemic. Geneva.
  [http://www.who.org/emc\_hiv/global\_report/data
  /globrep\_e.pdf].
- UNCTAD (United Nations Conference on Trade and Development). 1999. Email correspondence on unpublished data on foreign direct investment. Division on Transnational Corporations and Investment. 20 January. New York and Geneva.
- UNDP (United Nations Development Programme), 1995,

  Human Development Report 1995. New York:
  Oxford University Press.
- UNECE (United Nations Economic Commission for Europe). 1999a. Trends in Europe and North America 1998–99. New York and Geneva.
- 1999b. Correspondence on injuries and deaths from road accidents. March. New York and Geneva.
- UNESCO (United Nations Educational, Scientific and Cultural Organization). 1996. Correspondence on gross enrolment ratios. December. Paris.
- 1997. Correspondence on gross enrolment ratios. November. Paris.
- ---- 1998a. Statistical Yearbook 1998. Paris.
- --- 1998c. World Education Report 1998. Paris.

- 1999a. Correspondence on adult literacy rates. January. Paris.
- ——. 1999b. Correspondence on gross enrolment ratios. April. Paris.
- ——. 1999d. Correspondence on net enrolment ratios. February. Paris.
- 1999e. Correspondence on rate of survival to grade 5 of primary education. February. Paris.
- UNHCR (United Nations High Commissioner for Retugees).

  1998. Refugees and Others of Concern to UNHCR:
  1997, Statistical Overview. Geneva.
- UNICEF (United Nations Children's Fund). 1998b. The State of the World's Children 1998. New York: Oxford University Press.
- York: Oxford University Press.
- WHO (World Health Organization). 1997. Tobacco or Health: A Global Status Report. Geneva.
- 1998a. The World Health Report 1998 Geneva
- —— 1998b. World Health Statistics Annual 1996 Geneva.
- World Bank, 1993. World Development Report 1993. Investing in Health. New York: Oxford University Press.
- 1995. World Development Report 1995: Workers in an Integrating World. New York: Oxford University Press.
- --- 1996. World Bank Atlas 1996. Washington, DC.
- 1997a. World Development Indicators 1997 Washington, DC.
- 1997b. World Development Indicators 1997 CD-ROM. Washington, DC.
- 1998c. World Development Indicators 1998. CD-ROM. Washington, DC.
- 1999b. World Development Indicators 1999. CD-ROM. Washington, DC.
- ——. 1999e. Correspondence on the percentage of population with access to health services. Development Economics Data Group. March. Washington, DC.
- ——. 1999f. Correspondence on unpublished World Bank data on GDP per capita (PPP\$) for 1997. Development Economics Data Group. February. Washington, DC.
- WRI (World Resources Institute). 1998. World Resources 1998–99. New York: Oxford University Press.

# Definitions of statistical terms

Administrators and managers Includes legislators, senior government administrators, traditional chiefs and heads of villages and administrators of special interest organizations. It also includes corporate managers such as chief executives and general managers as well as specialized managers and managing supervisors, according to the International Standard Classification of Occupations (ISCO-1968).

Bank and trade-related lending Covers commercial bank lending and other private credit.

Budget deficit or surplus Central government current and capital revenue and official grants received, less total expenditure and lending minus repayments.

Carbon dioxide (CO<sub>2</sub>) emissions Anthropogenic (human-originated) carbon dioxide emissions stemming from the burning of fossil fuels and the production of cement. Emissions are calculated from data on the consumption of solid, liquid and gaseous fuels and gas flaring.

Children reaching grade 5 The percentage of children starting primary school who eventually attain grade 5 (grade 4 if the duration of primary school is four years). The estimate is based on the Reconstructed Cohort Method, which uses data on enrolment and repeaters for two consecutive years.

Cigarette consumption per adult The sum of production and imports minus exports of cigarettes divided by the population aged 15 years and older.

Commercial energy use The domestic primary commercial energy supply. It is calculated as local production plus imports and stock changes, minus exports and international marine bunkers.

Contraceptive prevalence rate The percentage of married women of child-bearing age (15–49) who are using, or whose husbands are using, any form of contraception, whether modern or traditional.

Current account balance The difference between (a) exports of goods and services as well as inflows of unrequited transfers but exclusive of foreign aid and (b) imports of goods and services as well as all unrequited transfers to the rest of the world.

Daily per capita calorie supply The calorie equivalent of the net food supply (local production plus imports minus exports) in a country, divided by the population, per day.

**Deforestation** The permanent clearing of forestland for all agricultural uses and for settlements. It does not include other alterations such as selective logging.

Dependency ratio The ratio of the population defined as dependent—those under 15 and over 65—to the working-age population, aged 15–64.

Disability A restriction or lack of ability (resulting from impairment) to perform an activity in the manner or within the range considered normal for a human being. Impairment is defined as any loss of psychological, physiological or anatomical structure and function.

Disbursement Records the actual international transfer of financial resources or of goods or services, valued at the cost to the donor.

Discouraged workers Individuals who would like to work and are available for work, but are not actively seeking it because of a stated belief that no suitable job is available or because they do not know where to get jobs.

**Doctors** Physicians and all graduates of any faculty or school of medicine in any medical field (including practice, teaching, administration and research).

**Drug crimes** Any crimes involving drugs, including the illicit brokerage, cultivation, delivery, distribution, extraction, exportation or importation, offering for sale, production, purchase, manufacture, sale, traffic, transportation or use of narcotic drugs.

Economically active population All men or women who supply labor for the production of economic goods and services during a specified period.

Education expenditure Expenditure on the provision, management, inspection and support of preprimary, primary and secondary schools; universities and colleges; vocational, technical and other training institutions; and general administration and subsidiary services.

Electricity consumption The production of heat and power plants less own use and distribution losses.

Enrolment The gross enrolment ratio is the number of students enrolled in a level of education, regardless of age, as a percentage of the population of official school age for that level. The net enrolment ratio is the number of children of official school age (as defined by the education system) enrolled in school as a percentage of the number of children of official school age in the population.

Exports of goods and services The value of all goods and non-factor services provided to the rest of the world, including merchandise freight, insurance, travel and other non-factor services.

External debt Debt owed by a country to non-residents repayable in foreign currency, goods or services.

Food aid in cereals The quantity of cereals provided by donor countries and international organizations, including the World Food Programme and the International Wheat Council, as reported for a crop year.

Foreign direct investment An investment in a country involving a long-term relationship and control of an enterprise by non-residents. It is the sum of equity capital, reinvestment of earnings, other long-term capital and short-term capital as shown in the balance of payments.

Fresh water withdrawals Total water withdrawals, not counting evaporation losses from storage basins. Withdrawals also include water from desalination plants in countries where they are a significant source of water withdrawals.

Gini coefficient Measures the extent to which the distribution of income (or, in some cases, consumption expenditures) among individuals or households within an economy deviates from a perfectly equal distribution. The coefficient ranges from 0—meaning perfect equality—to 1—complete inequality.

Government consumption Includes all current expenditures for purchases of goods and services by all levels of government, excluding most government enterprises.

Gross domestic investment Outlays on additions to the fixed assets of the economy plus net changes in the level of inventories.

Gross domestic product (GDP) The total output of goods and services for final use produced by an economy by both residents and non-residents, regardless of the allocation to domestic and foreign claims. It does not include deductions for depreciation of physical capital or depletion and degradation of natural resources.

Gross national product (GNP) Comprises GDP plus net factor income from abroad, which is the income residents receive from abroad for factor ser vices (labour and capital), less similar payments made to non-residents who contribute to the domestic economy.

Homicides Intentional deaths purposely inflicted by another person.

Immunization coverage The percentage of chil dren under one year of age receiving antigens used in the Universal Child Immunization (UCI) Programme.

Income or expenditure share The distribution of income or expenditure accruing to percentile groups of households ranked by total household income, per capita income or expenditure.

Infant mortality rate The probability of dying between birth and exactly one year of age times 1,000.

Infants with low birth-weight The percentage of babies born weighing less than 2,500 grams.

**Inflation** A fall in the purchasing power of money reflected in a persistent increase in the general level of prices as generally measured by the retail price index.

Internet host A computer system connected to the Internet—either a single terminal directly connected, or a computer that allows multiple users to access network services through it.

Life expectancy at birth The number of years a newborn infant would live if prevailing patterns of mortality at the time of birth were to stay the same throughout the child's life.

Literacy rate (adult) The percentage of people aged 15 and above who can, with understanding, both read and write a short, simple statement on their everyday life.

Maternal mortality rate The annual number of deaths of women from pregnancy-related causes per 100,000 live births.

Military expenditure All expenditure of the defence ministry and other ministries on recruiting and training of military personnel as well as construction and the purchase of military supplies and equipment. Military assistance is included in the expenditures of the donor country.

Municipal waste Waste collected by municipalities or by their order that has been generated by households, commercial activities, office buildings, schools, government buildings and small businesses.

National poverty line The poverty line deemed appropriate for a country by its authorities.

Official development assistance (ODA) Grants or loans to countries or territories that are undertaken by the official sector, with promotion of economic development and welfare as the main objective, at concessional financial terms.

Portfolio investment flows (net) Non-debtcreating portfolio equity flows (the sum of country funds, depository receipts and direct purchases of shares by foreign investors) and portfolio debt flows (bond issues purchased by foreign investors).

Primary education Education at the first level (level 1), the main function of which is to provide the basic elements of education.

Private consumption The market value of all goods and services, including durable products, purchased or received as income in kind by households and non-profit institutions.

Professional and technical workers Physical scientists; architects and engineers; aircraft and ship's officers; life scientists; medical, dental, veterinary and related workers; statisticians, mathematicians and systems analysts; economists; accountants; jurists; teachers; workers in religion; authors and journalists; sculptors, painters, photographers and related creative artists; composers and performing artists; athletes and sportsmen; and professional, technical and related workers not elsewhere classified, according to the International Standard Classification of Occupations (ISCO-1968).

Protected areas Totally or partially protected areas of at least 1,000 hectares that are designed as national parks, natural monuments, nature reserves or wildlife sanctuaries, protected landscapes and seascapes, or scientific reserves with limited public access.

Public expenditure on education Public spending on public education plus subsidies to private education at the primary, secondary and tertiary levels.

Public expenditure on health Recurrent and capital spending from central and local government budgets, external borrowings and grants (including donations from international agencies and nongovernmental organizations) and social health insurance funds.

Purchasing power parity (PPP) At the PPP rate, one dollar has the same purchasing power over domestic GDP that the US dollar has over US GDP. PPP could also be expressed in other national currencies or in special drawing rights (SDRs). PPP rates allow a standard comparison of real price levels between countries, just as conventional price indexes allow comparison of real values over time; otherwise, normal exchange rates may over- or undervalue purchasing power.

Real GDP per capita (PPP\$) The GDP per capita of a country converted into US dollars on the basis of the purchasing power parity exchange rate.

Refugees People who have fled their countries because of a well-founded fear of persecution for reasons of their race, religion, nationality, political opinion or membership in a particular social group, and who cannot or do not want to return.

Research and development (R&D) Creative, systematic activity intended to increase the stock of knowledge and the use of this knowledge to devise new applications.

Scientists and technicians Scientists refers to scientists and engineers with scientific or technological training (usually completion of third-level education) in any field of science who are engaged in professional work in research and development activities, including administrators and other high-level personnel who direct the execution of research and development activities. Technicians refers to people engaged in scientific research and development activities who have received vocational or technical training for at least three years after the first stage of second-level education.

Secondary education Education at the second level (levels 2 and 3) based on at least four years of previous instruction at the first level and providing general or specialized instruction or both, such as middle school, secondary school, high school, teacher training school at this level and vocational or technical school.

Sovereign long-term debt rating As determined by Standard and Poor's, an assessment of a country's capacity and willingness to repay debt according to its terms. The ratings range from AAA to CC (investment grade AAA to BBB-, and speculative grade BB+ and lower).

Sulphur dioxide (SO<sub>2</sub>) emissions Emissions of sulphur in the form of sulphur oxides and of nitrogen in the form of its various oxides, which together contribute to acid rain and adversely affect agriculture, forests, aquatic habitats and the weathering of building materials.

Tax revenue Compulsory, unrequited, nonrepayable receipts collected by central governments for public purposes.

Tertiary education Education at the third level (levels 5, 6 and 7) such as universities, teachers colleges and higher-level professional schools—requiring as a minimum condition of admission the successful completion of education at the second level or evidence of the attainment of an equivalent level of knowledge.

Time allocation and time use Allocation of time between market (SNA) and non-market (non-SNA) activities according to the United Nations System of National Accounts (SNA).

**Total armed forces** Strategic, land, naval, air, administrative and support forces. Also included are paramilitary forces such as the gendamerie, customs service and border guard if these are trained in military tactics.

Total debt service The sum of principal repayments and interest actually paid in foreign currency, goods, or services on long-term debt, interest paid on short-term debt, and repayments to the IMF. Total debt service is an important indicator to measure a country's relative burden to service external debt.

Total fertility rate The average number of children that would be born alive to a woman during her lifetime if she were to bear children at each age in accord with prevailing age-specific fertility rates.

Tourists Visitors who travel to a country other than that where they have their usual residence for a period not exceeding 12 months and whose main purpose in visiting is other than an activity remunerated from within the country visited.

Trade in conventional weapons (arms trade) Exports and imports of commodities designed for military use—military equipment such as weapons of war, parts thereof, ammunition and support equipment.

Traditional fuel use Estimated consumption of fuel wood, charcoal, bagasse and animal and vegetable wastes.

Under-five mortality rate The probability of dying between birth and exactly five years of age times 1,000.

Underweight (moderate and severe child malnutrition) Moderate refers to the percentage of children under age five who are below minus two standard deviations from the median weight for age of the reference population. Severe refers to the percentage of children under age five who are below minus three standard deviations from the median weight for age of the reference population.

Unemployment All people above a specified age who are not in paid employment or self-employed, but are available and have taken specific steps to seek paid employment or self-employment.

Unpaid family workers Household members involved in unremunerated subsistence and non-market activities, such as agricultural production for household consumption, and in household enterprises producing for the market for which more than one household member provides unpaid labor.

Waste recycling The reuse of material that diverts it from the waste stream, except for recycling within industrial plants and the reuse of material as fuel. The recycling rate is the ratio of the quantity recycled to the apparent consumption.

# Classification of countries

### Countries in the human development aggregates

High human development Medium human development

Albania

(HDI 0.800 and above)

(HDI 0.500 to 0.799)

Antigua and Barbuda Argentina Australia Austria Bahamas Bahrain Barbados Belgium Brunei Darussalam Canada Chile Costa Rica

Cyprus

Denmark

Finland

France

Greece

Germany

Czech Republic

Azerbaijan Belerus Belize Bolivia Botswana Brazil Bulgaria Cambodia Cameroon Cape Verde China Colombia Comoros Congo Croatia Cuba **Dominics** Dominican Republic

Hong Kong, China (SAR) Iceland Ireland Israel Italy Japan Korea, Rep. of Kuwait Luxembourg

Malta Netherlands New Zealand Norway Poland Portugal Oatar Singapore Slovakia Slovenia

Spain Sweden Switzerland United Arab Emirates United Kingdom United States Uruguay

Algeria Annenia

Ecuador Egypt El Salvador **Equatorial Guines** Estonia Fiii Gabon Georgia Ghana Grenada Guatemala Guyana Honduras Hungary India Indonesia

Iran, Islamic Rep. of Iraq Jamaica Tordan Kazakhstan Kenya Kyrgyzstan Latvia

Lebanon Lesotho

Libyan Arab Jamahiriya Lithuania Macedonia, TFYR Malaysia Maldives Mauritius Mexico

Uzbekistan

Vanuatu

Venezuela

Viet Nam

Zimbabwe

Moldova, Rep. of Mongolia Могоссо Myanmar Namibia Nicaragua Oman Pakistan Panama

Papua New Guinea Paraguay Peru

**Philippines** Romania Russian Federation Saint Kitts and Nevis Saint Lucie

Saint Vincent and the Grenadines Samoa (Western) São Tomé and Principe

Saudi Arabia Seychelles Solomon Islands South Africa Sri Lanka Suriname Swaziland

Syrian Arab Republic Tajikistan

Thailand Trinidad and Tobago

Tunisia Turkey Turkmenistan Ukraine

Low human development (HDI below 0.500)

Angola Bangladesh Benun Bhutan Burkina Faso Burundi

Central African Republic

Chad Côte d'Ivoire

Congo, Dem. Rep. of the

Djibouti Eritrea Ethiopia Gambia Guinea Guinea-Bissau Haiti

Lao People's Dem. Rep.

Madagascar Malawi Mali Mauritania Mozambique Nepal Niger Nigeria Rwanda Senegal Sierra Leone Sudan

Tanzania, U. Rep. of

Togo Uganda Yemen Zambia

### All developing countries

Algeria Angola Antigua and Barbuda Argentina Bahamas Bahrain Bangladesh Barbados Belize

Benin Bhutan Bolivia Botswana Brazil

Burkina Faso Burundi Cambodia Cameroon Cape Verde Central African Republic Chad Chile China Colombia Comoros

Brunei Darussalam

Congo, Dem. Rep. of the Costa Rica

Côte d'Ivoire Cuba Cyprus

Congo

Djibouti Dominica Dominican Republic Ecuador

Egypt El Salvador Equatorial Guinea

Eritrea Ethiopia Fiji Gabon Gambia Ghana Grenada Guatemala

Guinea Guinea-Bissau Guyana Haiti

Hong Kong, China (SAR)

India Indonesia Iran, Islamic Rep. of

Iraq Jamaica Tordan Kenya Korea, Rep. of Kuwait

Lao People's Dem. Rep. Lebanon

Lesotho Libyan Arab Jamahiriya Madagascar Malawi Malaysia Maldives Mali

Mauritania

Mauritius

Mexico Mongolia Могоссо Mozambique Myanmar Namibia Nepal Nicaragua

Niger Nigeria Oman Pakistan Panama

Papua New Guinea Paraguay Peru Philippines Oatar Rwanda

Saint Kitts and Nevis Saint Lucia

Saint Vincent and the Grenadines Samoa (Western) São Tomé and Principe

Saudi Arabia Senegal Sevchelles Sierra Leone Singapore Solomon Islands South Africa Sri Lanka Sudan Suriname Swaziland

Syrian Arab Republic

Tanzania, U. Rep. of

Sudan

Togo

Uganda

Vanuatu

Yemen

Zambia

Thailand Togo

Trinidad and Tobago

Tunisia Turkey Uganda

United Arab Emirates

Uruguay Vanuaru Venezuela Viet Nam Yemen Zambia Zimbabwe

Least developed countries

Angola Bangladesh Benin Bhutan Burkina Faso Burundi Cambodia Cape Verde

Central African Republic

Chad Comoros

Congo, Dem. Rep. of the

Djibouti Equatorial Guinea Eritrea Ethiopia Gambia Guinea Guinea-Bissau

Haiti

Lao People's Dem. Rep.

Lesotho Madagascar Malawi Maldives Mali Mauritania Mozambique Myanmar Nepal Niger Rwanda Samoa (Western) São Tomé and Principe Sierra Leone

Solomon Islands

Eastern Europe and the Commonwealth of Independent States (CIS)

Albania Tanzania, U. Rep. of Armenia Azerbaijan Belarus Bulgaria Croatia Czech Republic Estonia

Georgia Hungary Kazakhstan Kyrgyzstan Latvia Lithuania Macedonia, TFYR Moldova, Rep. of Poland Romania Russian Federation

Slovakia

Slovenia

Ukraine

Uzbekistan

Tajikistan

Turkmenistan

Industrialized countries

Australia Austria Belgium Canada Denmark Finland France Germany Greece Iceland Ireland Israel Italy Japan Luxembourg Malta Netherlands New Zealand Norway Portugal Spain Sweden Switzerland United Kingdom

United States

## Sub-Saharan Africa

Angola Benin Botswana Burkina Faso Burundi Cameroon Cape Verde

Central African Republic Chad

Comoros Congo

Congo, Dem. Rep. of the

Côte d'Ivoire Equatorial Guinea

Eritrea Ethiopia Gabon Gambia Chana Guinea

Guinea-Bissau Kenya Lesotho

Madagascar Malawi Mali Mauritania Mauritius

Mozambique Namibia Niger Nigeria

Rwanda São Tomé and Principe

Senegal Seychelles Sierra Leone South Africa Swaziland

Tanzania, U. Rep. of

Togo Uganda Zambia Zımbabwe

#### Arab States

Algeria Bahrain Diibouti Egypt Iraq Jordan Kuwait Lebanon

Libyan Arab Jamahiriya

Могоссо Oman Oatar Saudi Arabia Sudan

Syrian Arab Republic

Tunisia

United Arab Emirates

Yemen

## Latin America and the Caribbean

(including Mexico)

China Hong Kong, China (SAR) Korea, Rep. of Mongolia

Asia and the Pacific

East Asia

South-East Asia and the Pacific Brunei Darussalam Cambodia Fiii Indonesia

Lao People's Dem. Rep.

Malaysia Myanmar Papua New Guinea **Philippines** Samoa (Western) Singapore Solomon Islands Thailand Vanuatu

South Asia Bangladesh

Viet Nam

Bhutan India

Iran, Islamic Rep. of

Maldives Nepal Pakistan Sri Lanka Antigua and Barbuda

Argentina Bahamas Barbados Belize Bolivia Brazil Chile Colombia Costa Rica Cuba Dominica

Dominican Republic

Ecuador El Salvador Grenada Guatemala Guyana Haiti Honduras Jamaica Mexico Nicaragua Panama Paraguay

Saint Kitts and Nevis Saint Lucia Saint Vincent and the

Grenadines Suriname Trinidad and Tobago

Uruguay Venezuela

Peru

Southern Europe

Cyprus Turkey

# Key to countries

### HDI rank

łDI	rank
100	) Albania
100	
160	
38	
39	
87	
	Australia
16	
103	Azerbaijan
31	
37	Bahrain
150	) Bangladesh
29	
60	
83	
155	
145	
112	
122	
	Brazil
25	
63	
17: 170	
137	
134	
	Canada
106	
165	
162	_
34	
98	
57	
139	Comoros
135	
141	Congo, Dem. Rep. of th
45	
154	
55	
	Cuba
26	Cyprus
36	Czech Republic
15	Denmark
	Djibouti
53	Dominica
88	Dominican Republic
72	Ecuador
120	Egypt
	El Salvador
131	Equatorial Guinea
	Eritrea
	Estonia
72	Ethiopia

61	Fiji
13	Finland
- 11	France
124	Gabon
163	Gambia
85	Georgia
14	Germany
133	Ghana
27	Greece
52	Grenada
117	Guatemala
161	Guinea
168	Guinea-Bissau
99	Guyana
152	Haiti
114	Honduras
24	Hong Kong, China (SAR)
47	Hungary
9	Iceland
132	India
105	Indonesia
95	Iran, Islamic Rep. of
125	Iraq
20	Ireland
23	Israel
19	Italy
82	Jamaica
4	Japan
94	Jordan
76	Kazakhstan
136	Kenya
30	Korea, Rep. of
35	Kuwait
97	Kyrgyzstan
140	Lao People's Dem. Rep.
74	Latvia
69	Lebanon
127	Lesotho
65	, , , , , , , , , , , , , , , , , , , ,
62	
17	Luxembourg Mandania TEVE
73	Macedonia, TFYR
147 159	Madagascar Malawi
117	TATMIMI

Malaysia
Maldives
Mali
Mali
Malta
Mauritania
Mauritius
Mexico
Moldova, Rep. of
Mongolia

126 Morocco

169	Mozambique
128	Myanmar
115	Namibia
144	Nepal
8	Netherlands
18	New Zealand
121	Nicaragua
173	Niger
146	Nigeria
2	Norway
89	Oman
138	Pakistan
49	Panama
129	Papua New Guinea
84	Paraguay
80	Peru
77	Philippines
44	Poland
28	Portugal
41	Qatar
68	Romania
71	Russian Federation
164	Rwanda
51	Saint Kitts and Nevi
81	Saint Lucia
75	Saint Vincent and th
	Grenadines
70	Samoa (Western)
123	São Tomé and Princ
78	Saudi Arabia
153	Senegal
66	Seychelles
174	Sierra Leone
22	Singapore
42	Slovakia
33	Slovenia
118	Solomon Islands
101	South Africa
21	Spain
90	Sri Lanka
142	Sudan
64	Suriname
113	Swaziland
6	Sweden
12	Switzerland
111	Syrian Arab Republi
108	Tajikistan
156	Tanzania, U. Rep. of
67	Thailand
143	Togo
46	Trinidad and Tobage
102	Tunisia
	Rest #

86 Turkey

96 Turkmenistan

158	Uganda
91	Ukraine
43	United Arab Emirates
10	United Kingdom
3	United States
40	Uruguay
92	Uzbekistan
116	Vanuatu
48	Venezuela
110	Viet Nam
148	Yemen
151	Zambia
130	Zimbabwe

Indicator	Indicator tables	
A -		
Administrators and managers, female	3	
Agricultural production, as % of GDP	12	
AIDS cases	9	
Anaemia, pregnant women with Areas, protected	9	
Armed forces, total	13	
В		
Births to mothers under 20	24	
Birth-weight, low	9	
Budget surplus/deficit	12	
С		
Calories, daily per capita supply	20	
Carbon dioxide emissions, total	18	
share of world total	18	
per capita	18	
Children not reaching grade 5	10	
Cigarette consumption	, 9	
Computers, personal	A1.3	
Consumption, government, as % of GDP	12	
private, as % of GDP	12	
Contraceptive prevalence rate	16	
D		
Debt, external, total	15, A1.2	
as % of GNP	15, A1.2	
Debt rating, long-term, sovereign	A1.2 15, A1.2	
Debt service ratio Deforestation, average annual rate	18	
Dependency ratio	16	
Disabilities, people with	9	
Disasters, people killed or affected by	24	
Divorces	24	
Doctors Drug crimes	9 23	
E		
Economic activity rate, female	26	
female rate as % of male	26	
Education expenditure, public, as % of GNP	10, 13	
as % of total government expenditure	10	
primary and secondary	10	
higher Education index	1	
Elections, date of last	22	
members elected or appointed	22	
voter turnout	22	
Electricity consumption, total	17	
per capita	17 17	
Energy, commercial, total use	17	
GDP output per kilogram imports, net	17	
per capita	17	
Enrolment ratio		
gross, all levels combined	1	
gross, all levels combined, female and male	2	
	10	
net, primary		
net, primary net, primary, female	25	
net, primary		

Indicator	Indicator tables
net, secondary, female ratio as % of male tertiary, science	25 10
tertiary, science tertiary, science, female	25
Exports of goods and services, total	A1.1
as % of GDP	A1.1
F	
Fat, daily per capita supply	20
Fax machines Fertility rate, total	A1.3 16
Food aid in cereals	20
Food consumption	20
Food imports Food production, per capita	20 20
Fuel consumption, traditional	17
Fuel, spent	19
G	775 11
GDP, total	12
per capita	6, 7
real (PPP\$), per capita real (PPP\$), per capita, female and male	1 2,3
real (PPP\$), per capita, richest and poorest 20%	4,5
GDP index	1
Gender empowerment measure (GEM)	3 2
Gender-related development index (GDI) GNP, total	11
annual growth rate	11
per capita	11 11
per capital annual growth rate Government expenditure, central, as % of GDP	12
	Marketon I
H	4
Health services, population without access to Health expenditure, public, as % of GNP	13
public, as % of GDP	13
Homicides, intentional	23 1, 6
Human development index (HDI) reduction in shortfall in HDI	7
Human poverty index (HPI)	4,5
Human rights instruments, international, status	29
I, J, K	
Illiteracy rate, adult	4
people who are functionally illiterate	5
Immunization	9
Imports of goods and services, total	A1.1 A1.1
as % of GDP	12
Industrial production, as % of GDP Infant mortality rate	8
Inflation, average annual rate	11
Internet hosts	A1.3
Investment, foreign direct, net	A1.2
gross domestic, as % of GDP	12
portfolio, net flows	A1.2
L	
Lending, bank and trade-related, net	A1.2
Life expectancy at birth	1, 8 2
female and male people not expected to survive to age 40	4
people not expected to survive to age 60	5, 8

INDEX TO INDICATORS 261

## INDEX TO INDICATORS

Indicator	Indicator tables
Life expectancy index	1
Literacy rate, adult	1, 4, 10
female and male	2, 25
female rate as % of male	25
M	
Malaria cases	9
Manufactures, as % of merchandise exports	A1.1
Maternal mortality rate	8
Military expenditure, as % of GDP	13
N	
Nurses	9
0	
Official development assistance disbursed, total	14, A1.2
as % of central government budget	14
as % of GNP by NGOs as % of GNP	14, A1.2
multilateral, as % of GNP	14
per capita of donor country	14 14, A1.2
share through NGOs	14
to least developed countries	14
Official development assistance received, total	15, A1.2
as % of GNP	15, A1.2
per capita	15, A1.2
Oral rehydration therapy use rate	9
P, Q	
Paper, printing and writing, consumed	18
Political parties	22
Population, total	16
aged 65 and above	16
annual growth rate	16
Powerty population below in a second 1	16
Poverty, population below income poverty line Prisoners, total	4,5
juvenile	23 23
Professional and technical workers,	2)
female, as % of total	3
Protein, daily per capita supply	20
R	THE STATE OF
Rapes, recorded	23
Refugees, by country of asylum	24
by country of origin	24
Research and development, scientists	
and technicians	10
Road accidents, injuries and deaths from	24
S	
Safe water, population without access to	4
Sanitation, population without access to	4
and had american arrest as manners and	

Indicator	Indicator tables	
population served by public services	19	
Savings, gross domestic, as % of GDP	12	
Services, as % of GDP	12	
Students, tertiary, female	25	
female as % of male	25	
Suicides, female and male	24	
Sulphur dioxide emissions, per capita	18	
T		
Tax revenue, as % of GDP	12	
Telephone lines	A1.3	
Televisions	A1.3	
Time allocation, market and non-market activities	27	
female and male	27	
Tourism, international departures	A1.3	
Tuberculosis cases	9	
U, V	7 1	_
Under-five mortality rate	8	
Underweight, children under age five	4	
Unemployment, total	21	
discouraged workers	21	
involuntary part-time workers	21	
long-term, more than 12 months	5	
long-term, more than 12 months,	-	
female and male	21	
rate	21	
rate, female and male	26	
youth, rate, female and male	26	
Unemployment benefits, expenditure on	21	
Unpaid family workers, female	26	
W, X, Y, Z		
Waste, hazardous	19	
municipal	19	
population served by municipal services	19	
Waste recycling, glass	19	
paper and cardboard	19	
Water resources, internal renewable, per capita	18	
Water withdrawals, fresh, annual	18	
per capita	18	
Weapons, exports of conventional	13	
imports of conventional	13	
Women in government		
at all levels	28	
at ministerial levels	28	
at subministerial levels	28	
parliamentary seats held	3	
year first elected or nominated	28	
year received right to vote	28	
year received right to stand for elections	28	
Work time, female and male	27	
. O. a. Line, temate and mate	41	



**Background Papers: Human Development Report 1999, Volumes I and II** include independent research papers commissioned for *Human Development Report 1999.* 

**Human Development Report CD-ROM: Ten Years of People-Centred Development, 1990–1999** brings together in one convenient, interactive source *Human Development Reports* 1990–99, the complete statistical set for 1999 and a full reference section on key terms, methods and tools.

These valuable resources are available through:

United Nations Publications

Room DC2-853 Dept. D099

New York, NY 10017, USA

Telephone: (800) 253 9646 Email: publications@un.org

http://www.un.org/Publications

or

**United Nations Publications** 

Sales Office and Bookshop CH-1211, Geneva 10, Switzerland Telephone: (41-22) 917-2614 Email: unpubli@unog.ch

## Themes of the Human Development Reports

- 1990 Concept and Measurement of Human Development
- 1991 Financing Human Development
- 1992 Global Dimensions of Human Development
- 1993 People's Participation
- 1994 New Dimensions of Human Security
- 1995 Gender and Human Development
- 1996 Economic Growth and Human Development
- 1997 Human Development to Eradicate Poverty
   1998 Consumption for Human Development
- 1999 Globalization with a Human Face

All published for UNDP by Oxford University Press, New York

Global markets, global technology, global ideas and global solidative can enrich the lives of people everywhere. The challenge is to ensure that the benefits are shared equitably and that this increasing interdependence works for people—not just for profits. This year's Report argues that globalization is not new, but that the present era of globalization, driven by competitive global markets, is outpacing the governance of markets and the repercussions on people.

Characterized by "shrinking space, shrinking time and disappearing borders", globalization has swung open the door to opportunities. Breakthroughs in communications technologies and biotechnology, if directed for the needs of people, can bring advances for all of human kind. But markets can go too far and squeeze the non-market activities so vital for human development. Fiscal squeezes are constraining the provision of social services. A time squeeze is reducing the supply and quality of caring labour. And an incentive squeeze is harming the environment. Globalization is also increasing human insecurity as the spread of global crime, disease and financial volatility outpaces actions to tackle them.

The Report recommends an agenda for action: reforms of global governance to ensure greater equity, new regional approaches to collective action and negotiation and national and local policies to capture opportunities in the global marketplace and translate them more equitably into human advance.

In addition to the ranking of 174 countries on the human development index (HDI), this year's Report presents a new table on trends in human development from 1975 to 1997 for 79 countries. This new table reveals that, overall, countries have made substantial progress in human development, but that the speed and extent of progress have been uneven

This Report also includes special contributions. Nobel laureate Amartya Sen describes the success of the human development index in bringing a human face to the assessment of development processes. Professor Paul Streeten gives a 10-year perspective on the *Human Development Reports*. And media magnate Ted Turner appeals for partnerships with the United Nations to face the new global challenges of our times.

Human Development Report 1999 was prepared by a team of eminent economists and distinguished development professionals under the guidance of Richard Jolly, Special Adviser to the Administrator of UNDP, and Sakiko Fukuda-Parr, Director of the Human Development Report Office. The panel of consultants included Adebayo Adedeji, Philip Alston, Galal Amin, Lourdes Arizpe, Isabella Bakker, Yusuf Bangura, David Bigman, Bob Deacon, Meghnad Desai, Nancy Folbre, Stephany Griffith-Jones, Gerry Helleiner, K.S. Jomo, Azizur Rahman Khan, Martin Khor Kok Peng, Jong-Wha Lee, Michael Lipton, Nguyuru Lipumba, Raisul Awal Mahmood, Ranjini Mazumdar, Süle Özler, Theodore Panayotou, Alejandro Ramirez, Mohan Rao, Changyong Rhee, Ewa Ruminska-Zimny, Arjun Sengupta, Victor Tokman, Albert Tuijnman and John Whalley.

OXFORD UNIVERSITY PRESS





Rs 395